

TT IP CAM



User Manual

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Declaration

Welcome to use TT IP CAM

Please do read all data or manual of the camera carefully before installing and using it first time in PC, it will help you better understand and employ IP CAM well. TT INT'L will not responsible for any expenses due to actions not following instructions of this manual.

As we can not assure user's full understand of manual's content, TT INT'L will not responsible for any spoilage or arising expenses caused by user or user-agreed professional maintaining staff (not TT's) in installing and operation course.

The software interface of this manual is sketch map, please refer to the actual one as standard. Please forgive not other informing of any changes of manual's content. Contact us for support at technic@cctv-camera.cc if any problems in using IP CAM.

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Before You Use

1.>Different IPcams feature different functions. This manual is ONLY for the IPcams from us.

2.>This IPcam is a high performance surveillance camera. Please ensure that the operation of such device is legal in your country or area before installing.

Limited Liability

We cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. We make no warranty of any kind with regard to the material contained within this document, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

• Features:

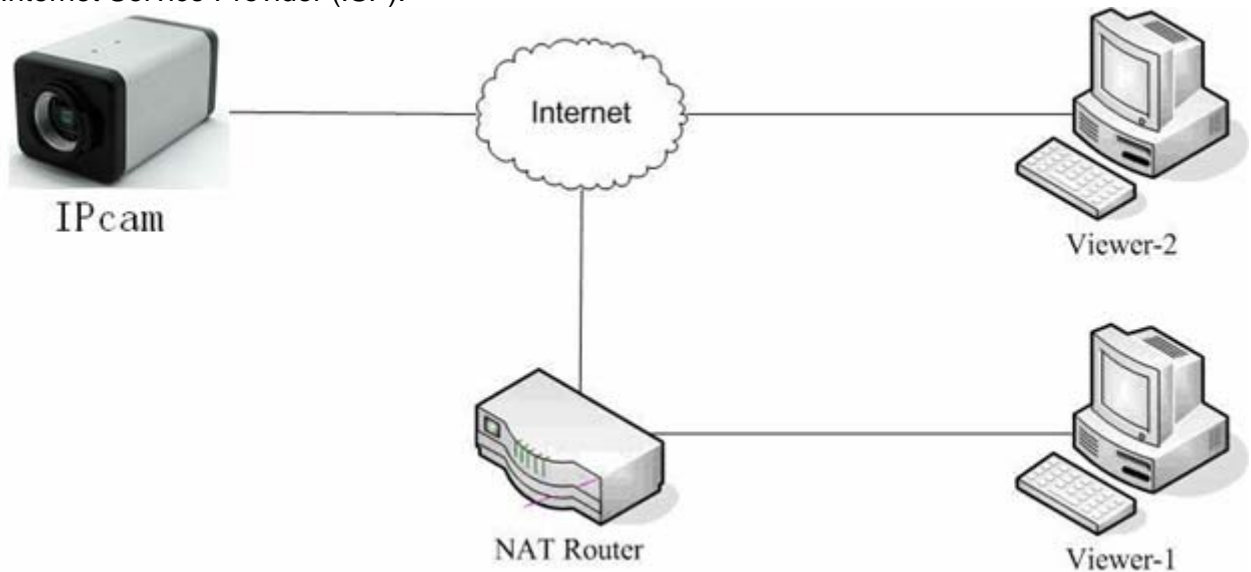
- H.264 compression, best for Internet video Streaming
- No Static IP address required, No DDNS service needed.
- D1 Resolution.
- Support Win CE based PDA and Mobile Phone local and remote viewing.
- Support SD/SDHC card recording, NAS recording, NVR recording, and remote view and recording.
- Multi-streaming capability.
- Support UPNP protocol.
- Support DHCP, Static IP, PPPOE internet environments.
- NVR support 128 cameras' D1 video recording in LAN. Can manage numerous IP cameras depending on the NVR PC's ability.
- 3 Level (High, Middle, Low) user priority management.
- Two-way audio function: audio in and audio out for speaker with amplifier
- With BNC connector for composite video output as normal camera.

Setup

<1> Connect IPcam to a network

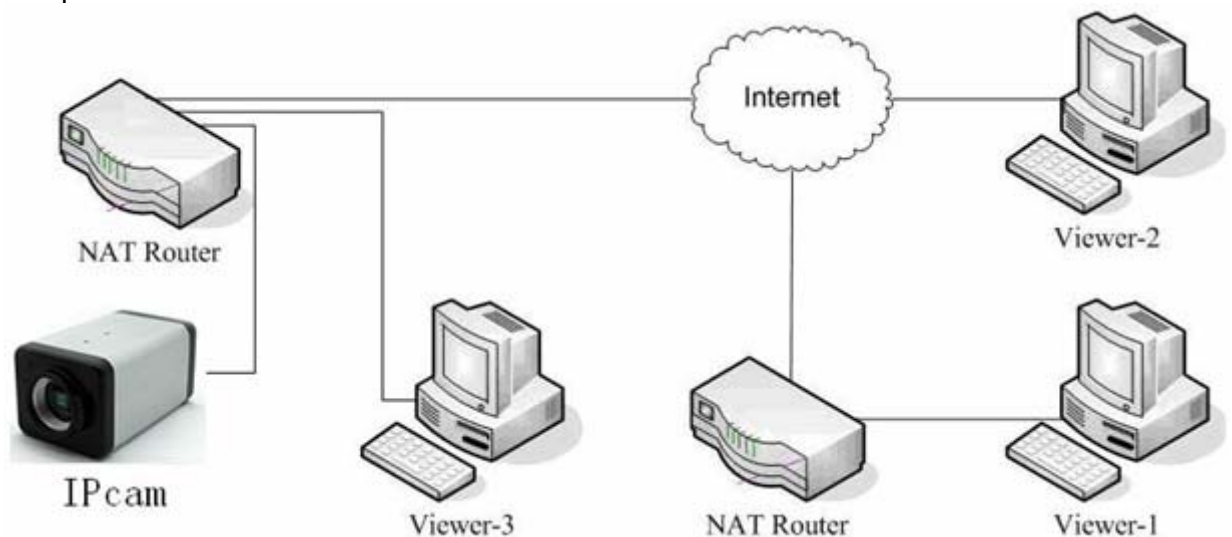
<1.1> Internet directly

IPcam is configured as DHCP, PPPoE or Public IP depending on the service that user ordered from Internet Service Provider (ISP).



<1.2> Behind a NAT router.

IPcam is configured as DHCP or Static IP.
Multiple IPcams are allowed to be installed in LAN.



<2> Install Applications (utility name: IPcam Loader)

Download "IPcam_Loader" utility from <http://www.ttipcam.com> , double click on it when finished.
The IPcam_Loader GUI pops up.



Select the application utilities needed from **File to be updated** and click **Download**.

the IPcam can be used as an IPcam (IPcam mode) itself or a NVR (NVR mode).

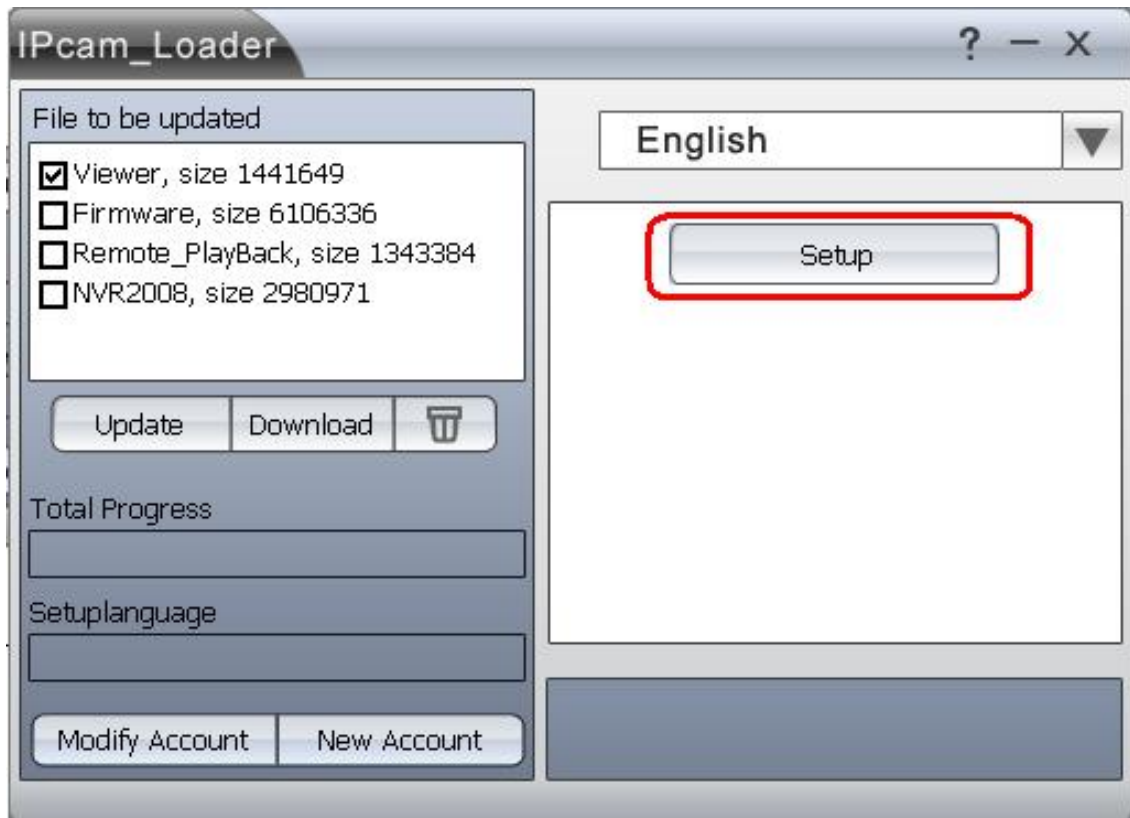
The software utilities are listed below.

Setup: configure and/or view in LAN

Viewer: view and/or record on Internet

NVR: view, assign users, system management, record and playback.

Remote_Playback: view and playback online.



Double click on **Setup** to run the utility and setup your IPcam.

Updating file list: List of all available applications to be upgraded.

Update: Click **Update** to update list.

Download: Click **Download** to download the selected files.

Delete icon: Click on that icon will delete the downloaded files.

Total Progress: Shows the total download progress.

Current Progress: Shows the download progress of the current file.

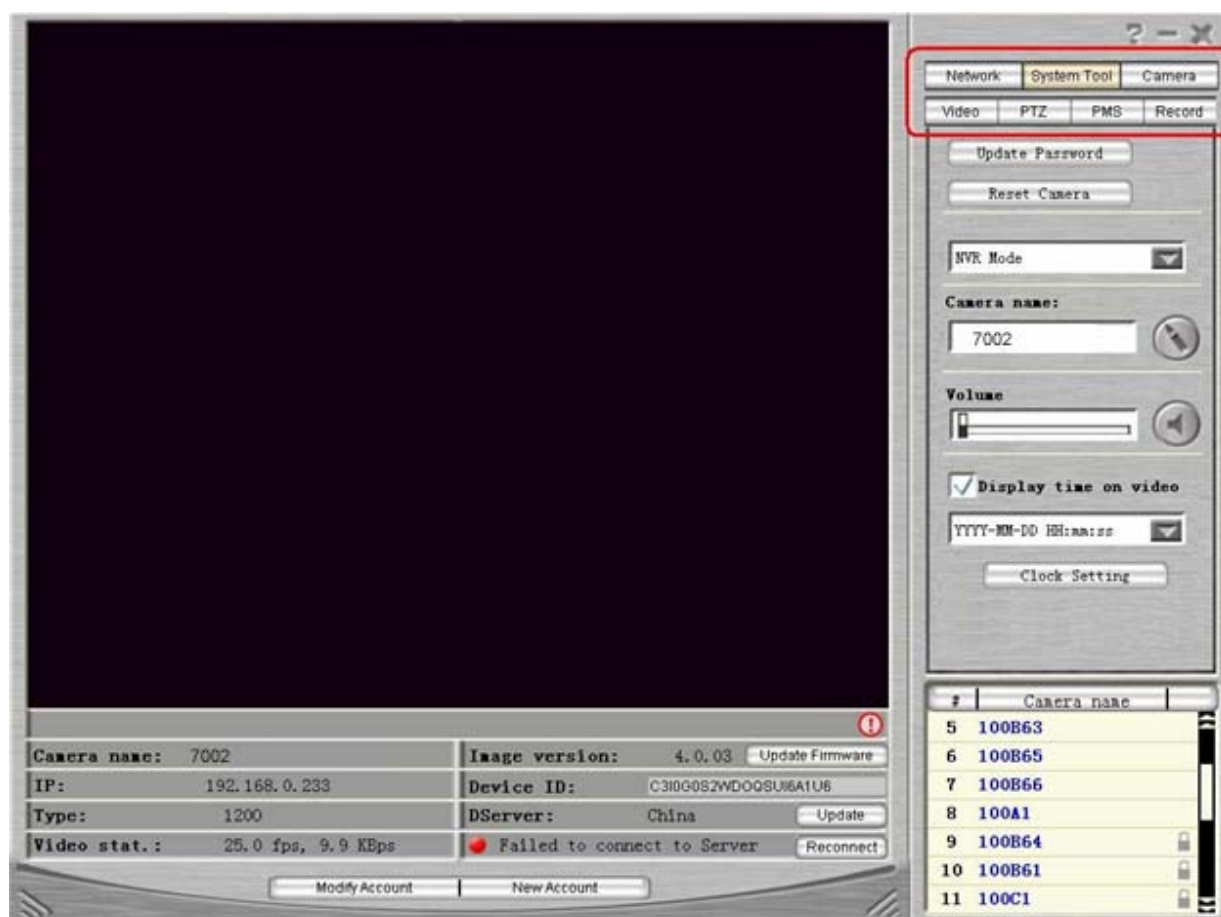
Modify Account: Link to account management database.

New Account: Link to registration database.

<3>Configuration (utility name: Setup)

The IPcam is a Plug-and-Play device. Without any network settings, all the IPcams connected in LAN will be listed on the **Camera Name** area. Different colors indicate different function modes.

Select the IPcam to be setup by double-clicking on its name. The streaming video of selected IPcam will be displayed and its name will be changed to a red color. The current status and data of that IPcam will show on screen.



<3.1>System Tool



*Click on "System Tool" and select a function mode.

<A> Don't connect to server: This mode is for applications in LAN or fixed IP environments.

** Connect to D-Server:** This mode is for users who do not have a fixed IP on Internet.

<C> Connect to Record-Server: This mode connects IPcam to a specified remote server that can record and transmit the streaming video.

Click on **System Tool** and get the UI page as left:

Update Password: To setup/ change password.

Reset Camera: Click to restart the IPcam.

Modes: 3 available function modes*.

Camera Name: The name can be changed by clicking the pencil icon after typing in a new name.

volume control: Move the bar to adjust the volume of the microphone on the IPcam.

Display time on video: Check this feature to display the current time on the video. The time of the IPcam can be changed by clicking the pencil icon after typing in the new time.

<3.2>Camera Control



Cameras are designed by different technologies of sensors. Some models behave different from others. User is to adjust the video quality to the best to his/her application.

Click on **Camera** to get to the UI page shown on the left side.

Indoor/ Outdoor Mode: Select this mode if hardware installed indoor/ outdoor. The maximum of FPS will be 15/ 30.

Night Mode: The maximum FPS of this mode is only 10. Used to support dark environments.

Auto Mode: Select this mode to fit into the environment automatically.

Banding Filter: Check this feature to eliminate bandings.

Zoom: Available for special models only.

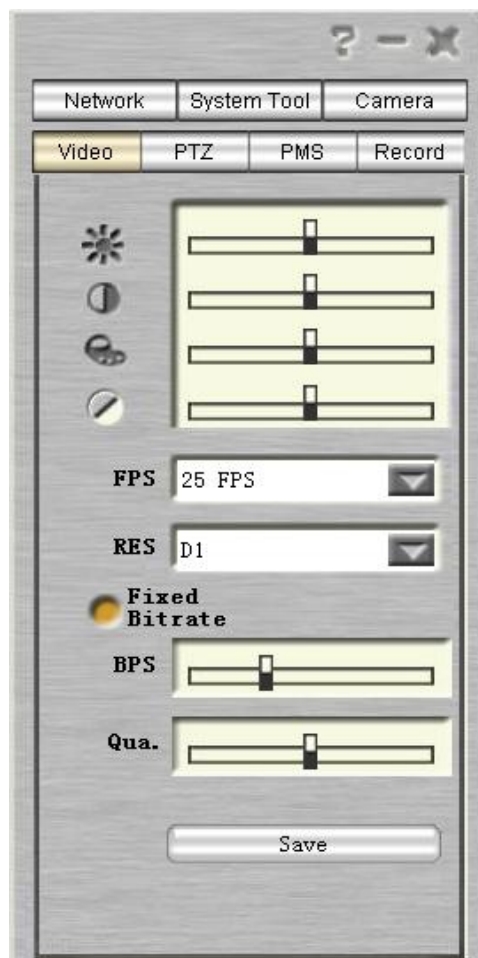
Sharpness: Move the bar to change the sharpness of the video source.

Brightness: Move the bar to adjust the brightness of the video source.

Gain: Move the bar to change the gain The bigger gain the brighter the video, yet more noises.

Special: Different color-filters can be selected.

<3.3>Video Control



The IPcam supports different resolution of video from QVGA to D1.

User will select the most suitable one for application. For example, to record video in LAN (NVR mode) will require better video quality if storage capacity is not concerned. To view from the internet will require the selection of a lower resolution depending on the network bandwidth.

The default settings are 15FPS, QVGA and 200Kbits. User should adjust the settings according to the application requirement and network environments.

Click on **Video** and get the GI page:

Brightness: Adjust the bar to change the brightness.

Contrast: Adjust the bar to change the Contrast.

HUE: Adjust the bar to change the HUE.

Saturation: Adjust the bar to change the saturation.

FPS: Click the list icon and select the frame-rate.

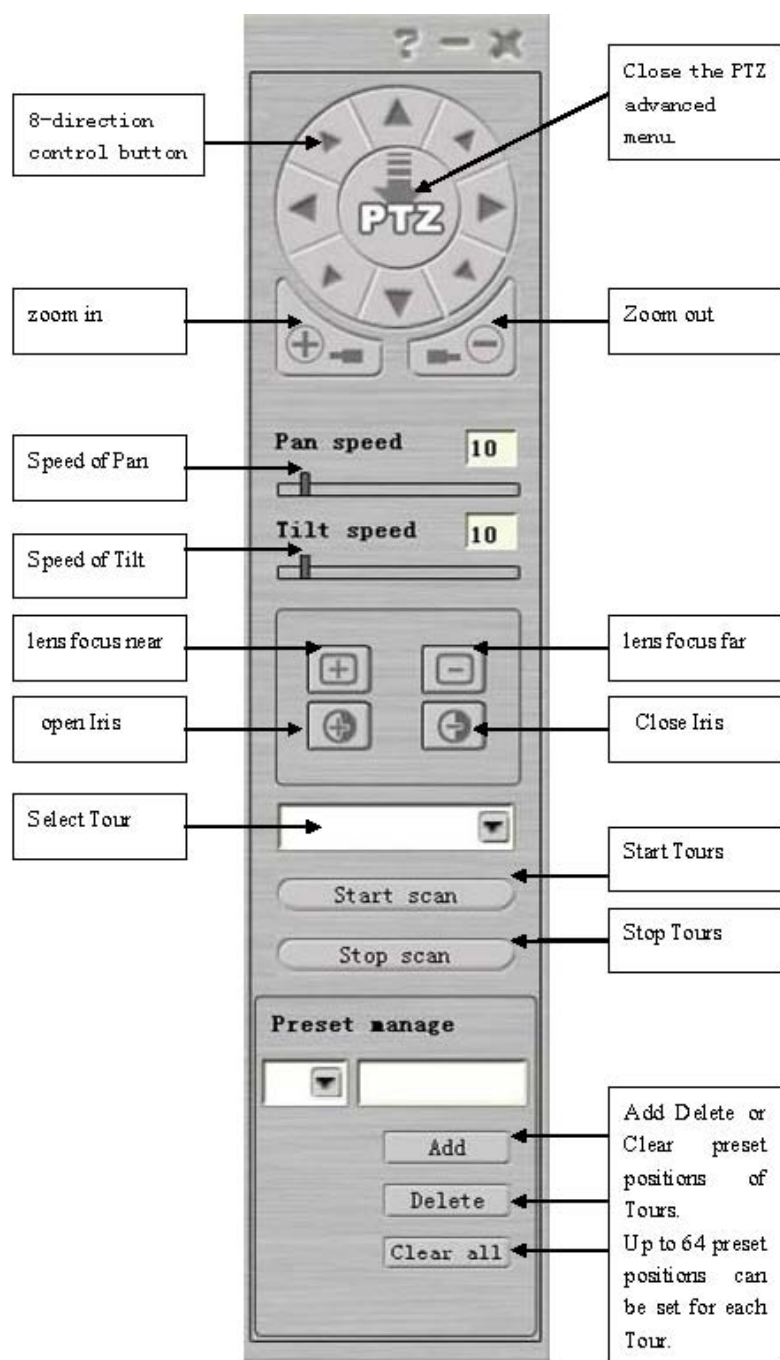
RES: Click the list icon and select the resolution.

Fixed Quality/ Bitrate: User is able to fix the quality of video or the bitrate.

BPS: Move the bar to change the bitrate.

<3.4> PTZ Control

Click on **PTZ** to get to the PTZ control UI page shown as below.



<3.5>PMS Media Server

Network System Tool Camera

Video PTZ PMS Record

☐ Enable MS

Name Map Server

202.107.233.103

Name

PMS Port

9000

Video Quality Of PMS

FPS 5 FPS

RES QVGA

BPS

Save

What is PMS Port ?

A router with Network Address Translation (NAT) allows a local network to use private IP addresses communicate out to the Internet. In other words, connections may be established outbound to the Internet, but connections arriving from the Internet are not allowed.

By using port mapping however, services like an IP camera and NVR server running on your private network may become accessible from the Internet.

So, Port Mapping is a feature that allows devices behind router to be accessed on Internet.

Click on **PMS** and get the GI page:

This feature is for user to view the camera on a webpage. There's an embedded MS in the camera. User is allowed to setup online.

Enable MS: enable the Media Server.

Name Map Server: This server is provided by your dealer and functioning as DDNS.

Name: give the camera a name for login.

PMS Port: Default as 9000.

FPS: Click the list icon and select the frame-rate.

RES: Click the list icon and select the resolution.

BPS: Move the bar to change the bitrate.

Click on Save when done.

<3.6>Record Settings



Click on **Record** and get the GI page:

Boot Recording: Recording when boot up.

Key Recording: User has to push the button on camera to start/ stop recording.

Audio Recordation: check to include the audio when recording.

Normal Recordation: Keep recording when started.

Event Recordation: Recording only when an event is triggered.

Check the motion detection area and DI when required.

Overwrite: overwrite the harddisk when assigned capacity is full.

Full Stop: stop recording when the assigned capacity is full.

Enable Sch.: check to define the recording schedule



Video Quality Setting:

User is able to setup the video quality for recording purpose.

FPS: select the frame-rate.

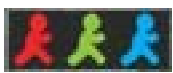
RES: select the resolution.

BPS: Move the bar to change the bitrate.

It is recommended to preview the settings before save and record.

Motion Detection (MD):

Check the box to enable MD function. User is able to define MD up to 3 areas. MD area can be defined by key-in axis numbers, too.



Indicates 3 areas of MD are enabled.



Gray color indicates MD is set but not triggered. The box indicates the audio alarm is set.

<4> Network Settings

<4.1> Allow visit from the internet

Enable this option will allow the user to input the IP address and view this IPcam via software Viewer utility without registration, either Public IP or private IP will work. It is highly recommended to setup a password before enabling this feature.

<4.2> Network Type

This is a Plug-and-play device. No network setting needed when used in LAN.

Skip the rest of this manual and refer to "DVR User's Manual" if the IPcam is used in DVR mode.

Click on **Network** and select a **Connection Type** according to the user's network environment.



<A>Obtain an IP Automatically (DHCP)

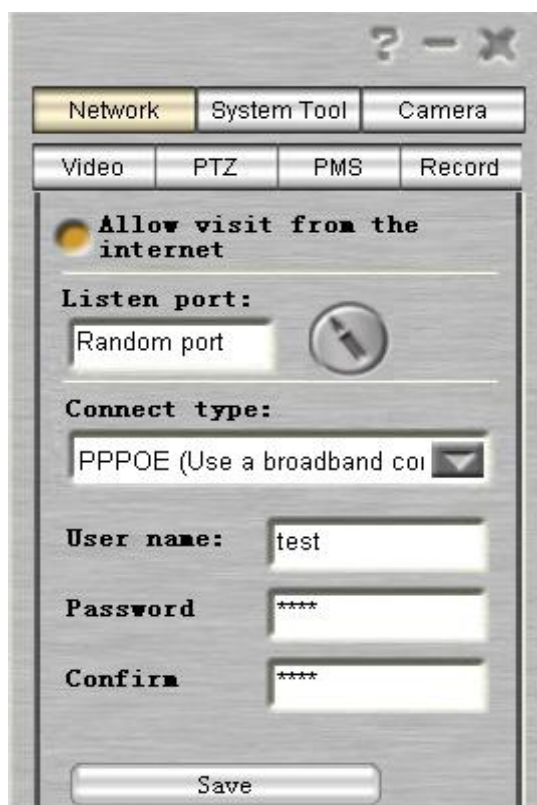
DHCP is the most popular connection type. DHCP usually requires no setup.

Listen Port can be changed for special network requirement.

Key-in the DNS address if necessary.

Click "Save" when finished.

The IPcam will link to the network automatically.



The screenshot shows a window titled "Network" with tabs for "Network", "System Tool", and "Camera". Under the "Network" tab, there are sub-tabs for "Video", "PTZ", "PMS", and "Record". The "Allow visit from the internet" checkbox is checked. The "Listen port" is set to "Random port". The "Connect type" is set to "PPPOE (Use a broadband connection)". The "User name" is "test" and the "Password" and "Confirm" fields are masked with asterisks. A "Save" button is at the bottom.

Network System Tool Camera

Video PTZ PMS Record

☒ Allow visit from the internet

Listen port:
Random port

Connect type:
PPPOE (Use a broadband connection)

User name: test

Password: ****

Confirm: ****

Save



The screenshot shows the same window as above, but the "Connect type" is set to "Use the following IP Address". The "IP address" is "192.168.1.101", the "Mask" is "255.255.255.0", and the "Gateway" is "192.168.1.1". The "Using following DNS server" section has a "Preferred" field set to "192.168.1.1" and an empty "Alternate" field. A "Save" button is at the bottom.

Network System Tool Camera

Video PTZ PMS Record

☒ Allow visit from the internet

Listen port:
Random port

Connect type:
Use the following IP Address

IP address: 192.168.1.101

Mask: 255.255.255.0

Gateway: 192.168.1.1

Using following DNS server

Preferred: 192.168.1.1

Alternate:

Save

PPPoE (Use a broadband connection)

The IPcam is able to connect to DSL ISP without any other equipment.

Connect it directly to the DSL modem and select PPPoE.

Listen Port can be changed for special network requirement.

Click "Save" after typing in the user name and password given by DSL ISP.

<C>Use the following IP Address (Static IP)

An IP address is required if Static IP is set. Consult your ISP or network administrator to get the IP, Mask, Gateway and DNS addresses.

Listen Port can be changed for special network requirement.

Click "Save" when finished.

The IPcam will link to the network automatically according to the configuration just set.

<4.3> Wireless Settings

Wireless configuration interface is only available when the wireless camera is selected.

Click **Wireless** on Network page will pop up the wireless setup pages.

The image shows a 'Wireless Settings' window with a close button in the top right corner. The window contains the following elements:

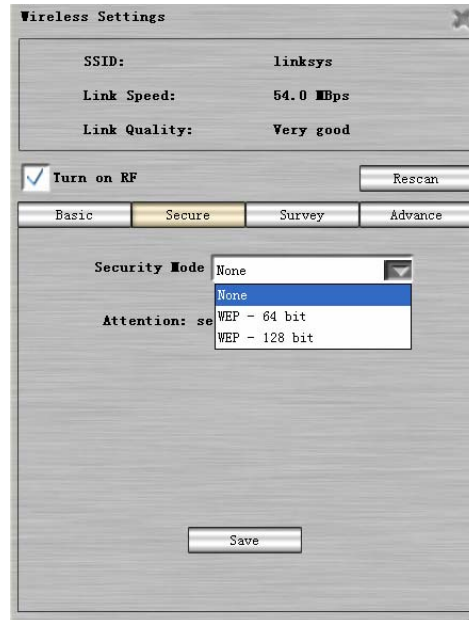
- A status box at the top showing:
 - SSID: linksys
 - Link Speed: 54.0 MBps
 - Link Quality: Very good
- A checkbox labeled 'Turn on RF' which is checked, with a 'Rescan' button to its right.
- Four tabs: 'Basic' (selected), 'Secure', 'Survey', and 'Advance'.
- Under the 'Basic' tab:
 - 'Network type' dropdown menu set to 'Infrastructure'.
 - 'Select SSID' dropdown menu set to 'linksys'.
- A 'Connect type:' dropdown menu set to 'Obtain an IP Address'.
- A radio button labeled 'Using following DNS server' which is selected.
- Two text input fields: 'Preferred DNS server' and 'Alternate DNS server'.
- A 'Save' button at the bottom.

Basic configuration allows user to select Network type of wireless. **Infrastructure** is the most popular selections.

SSID is for user to select the desired wireless network when there're many available.

The following page is to provide the selection of encryption mode.

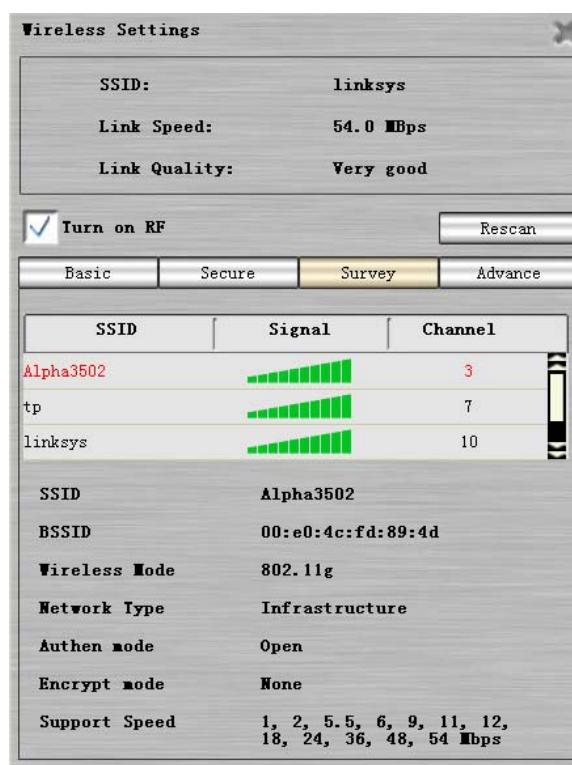
This setting has to be the same as the receiver device.



Click **Save** to save the settings.

The Survey page shows detail information of available wireless networks.

Note: User will not be able to connect to the wireless network if the setting or security mode is incorrect.



The system provides Advanced settings as following page.

It is recommended to keep the default settings unless user is familiar with them.



The image shows a 'Wireless Settings' dialog box with a close button (X) in the top right corner. It contains the following information:

SSID:	linksys
Link Speed:	54.0 Mbps
Link Quality:	Very good

Below this table is a checkbox labeled 'Turn on RF' which is checked, and a 'Rescan' button to its right.

There are four tabs: 'Basic', 'Secure', 'Survey', and 'Advance'. The 'Advance' tab is currently selected and highlighted in yellow.

Under the 'Advance' tab, there are several settings, each with a dropdown menu:

- Wireless mode: 802.11 B/G mix
- B/G protect: Auto
- Ix rate: Auto
- Country region code: 0: CH 1 - 11
- Ix burst: Disable
- Ix Preamble: Auto
- PSM: constantly awake

A 'Save' button is located at the bottom center of the dialog box.

<5> Account Management

<5.1> Registration

User can view the IPcam by either entering the IP address or Account name.

Registration is required for viewing on the Internet, unless the IPcam was set to Static IP with a fixed Public IP.

Device ID

Device ID is unique and can be copied from the user interface of Setup utility. It can be used for only one registration. User has to delete previous registration before registering a new account.

DServer

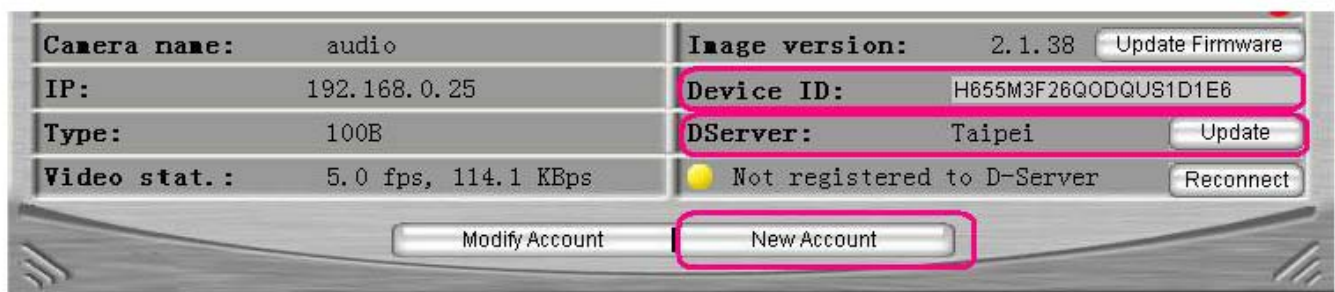
DServer is provided by manufacturer or distributor. It is used to find the IPcam on Internet if user has no fixed public IP for it.

Click "Update" to get a list of available DServers. Select the one that is suitable for future registration. This DServer has to be the same one selected when user registered its account.

User has to select the same DServer in three places.

- (1) When setting up the IPcam hardware (Setup utility).
- (2) Registration of AccountID. (New Account webpage).
- (3) Log-in UI (Remote_Viewer)..

Copy the Device ID and click "New Account" to register an account if needed.



Sign Up

Server:	Taiwan	Taipei	
ID#:		--Select a Server--	
Account ID:		Taipei	ID may consist of a-z, 0-9 and underscores, and must be less than 20 characters.
Password:		Taizhong	Password must not be less than 4 characters, and can't contain blank space.
Re-type password:			
Security question:			If you forget your password, you can get it through answering this question.
Your answer:			
<input type="button" value="Sign Up"/>			

Select a location and a DServer that will be used to login with in the future. It is necessary to select the same DServer as the one set in Setup utility. Complete the form and click “Register” to activate an Account ID and Password for user to view on the Internet.

Account ID and Password are created by user. Log-in with the correct Account ID and Password, and then you will be able to view the video/audio of IPcam.

<5.2>AccountID management

Click on **Modify Account** on Setup utility or on IPcam_Loader.



Sign In

Account ID:

Password : [Forget your password?](#)

Key in “AccountID” and “Password”. Click **Login** to get an AccountID management table. AccountID owner can add user name, change user’s password, change device name, delete device and grant privilege.



[Change Account's Password](#)

Device Management:

Host ID	VersaX SerialNo	Delete Host
Clock	D54174F26X0BQUV252H1	delete
fish-bowl	1783G3F26Z0BQUK2S3X1	delete
street	01D090F2630BQUK0F371	delete
DVDPlayer	Y0D6W0F26C0BQUA271K0	delete
Taipei	S4T2S4F26U0BQUR5K203	delete

Host ID: SerialNo:

Host ID: New Host ID:

Subcount Management:

User ID	Password	Delete User
1	1	delete
2	2	delete

User ID : Password:

User ID : New Password:

Privilege Grant:

User ID	Host ID	Revoke Privilege
1	fish-bowl	delete
2	street	delete

User ID : Host ID:

Add Device Key-in the new Device Name and Serial Number. Click **Add Device** to add this device. Repeat this procedure to add more devices.

Multiple devices (device names) can be added to one AccountID.

Multiple users (User ID) can be set under one AccountID.

Any User ID can be assigned to view one or multiple Device Names by AccountID.

Delete Device Click the device name to be deleted. Click **delete** to remove that device from list.

Change Device Name Click the **Device Name List** icon and select the device name to be changed. Key-in a new name and click **change** to change that device name.

<5.3>Sub-Account (User ID) Management

It is recommended that users should not share their ID and Password with others. Every AccountID is able to create one or multiple Sub-Account (UserID).

Add user Key-in the new UserID and Password. Click **Add User** to add that user. Repeat this procedure to add more users.

Delete UserID Click the UserID to be deleted. Click **delete** to remove that UserID from that UserID list.

Change User's password Click the **User ID List** icon and select the UserID to be changed. Key-in a new password for it and click **change** to change its password. Note: Only AccountID owners can change the password of UserIDs.

Grant Privilege Every userID can be granted to view single or multiple devices by AccountID owner. Click the **UserID List** icon and select the UserID to be granted. Click the **Device Name list** icon and select the device to be granted its access to the UserID. Click **Grant privilege** to set that privilege.

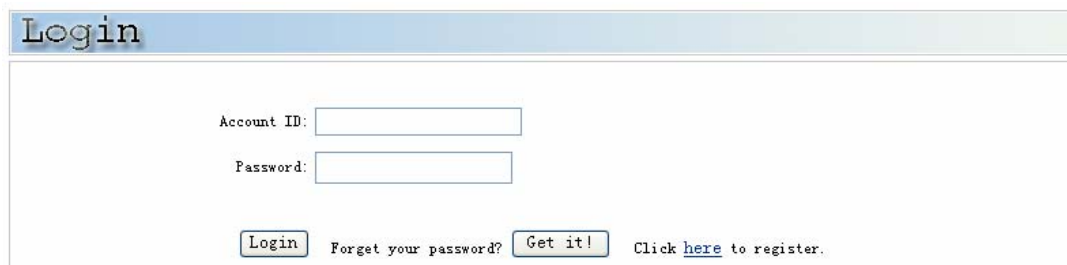
Repeat the procedures to grant more device access to the UserID.

Delete Privilege Click the UserID with the device access to be deleted. Click **delete** to remove the privilege.

<5.4>Password

User is easy to retrieve the lost password of AccountID from the system.

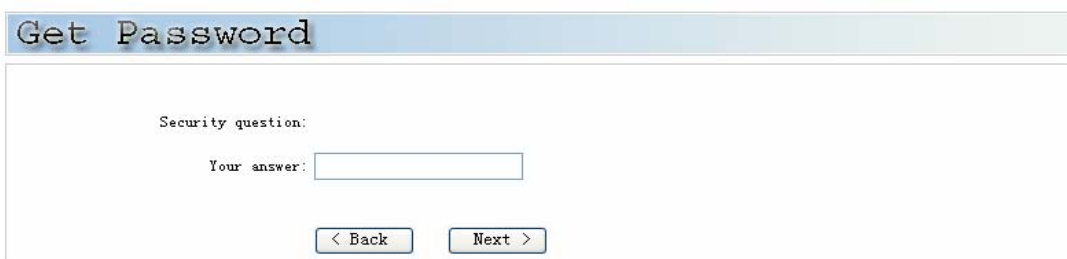
Click **Get it!** from the Login window.

A screenshot of the 'Login' window. It has a title bar 'Login' in a blue header. Below the header, there are two input fields: 'Account ID:' and 'Password:'. At the bottom, there are four buttons: 'Login', 'Forget your password?', 'Get it!', and 'Click [here](#) to register.'

System will pop up a window and asks for Account ID.

A screenshot of the 'Get Password' window. It has a title bar 'Get Password' in a blue header. Below the header, there is an input field labeled 'Account ID:'. At the bottom, there are two buttons: '< Back' and 'Next >'.

Click Next to key-in the answer of the security question which was set when registered.

A screenshot of the 'Get Password' window. It has a title bar 'Get Password' in a blue header. Below the header, there is a label 'Security question:' followed by an input field labeled 'Your answer:'. At the bottom, there are two buttons: '< Back' and 'Next >'.

The system will show your password after the verification of the correct answer.

A screenshot of the 'Get Password' window. It has a title bar 'Get Password' in a blue header. Below the header, there is a label 'Your password:' followed by the text '123456'. At the bottom, there is a button labeled 'Login'.

Login to an account by click **Login** or just close this page and exit.

<6> Q&A

Q1. What kind of cable do I need to connect the IPcam to the network?

A1. The cable used for your PC will work for the IPcam, too. Technically, it's a category 5 UTP cable with RJ-45 plug-in connectors.

Q2. How do I keep my IPcam as private as possible?

A2. Do not share your AccountID/ Password with others. It is recommended to setup multiple Sub-Account for different viewers. (See User's Manual "Sub-Account Management")

Q3. How many users are allowed to watch my IPcam simultaneously?

A3. Only one user can view the IPcam over Internet at a time, unless the PMS Media Server is installed. But, all the viewers in LAN can view the IPcam simultaneously via DVR or Setup utilities.

Q4. What if I forgot my password?

A4. There are two kinds of passwords. For security reason, password of the IPcam set by Setup utility is stored in the hardware and is unable to be retrieved. User has to hold the REC button and reboot the IPcam to erase the password. Please hold the REC button for 5 seconds, then push the RESET button. Password set by Remote_Viewer utility (AccountID) can be retrieved. The system will reply after you correctly answer the security question you provided when registered.

Q5. Why there's no Video displayed?

A5. As an individual user viewing from internet, please check if you are behind a firewall. It's possible to get no video if both IPcam and viewer are behind firewalls or NAT Router. Consult your MIS to view from this environment.

Q6. Why the image is not clear enough?

A6. Adjust the lens that connected to the IPcam to get the best focus.

Another possibility is the low bandwidth. Video quality is limited by the bandwidth of network. User is recommended to adjust the resolution and frame-rate according to user's network environment.

Q7. Why the timestamp on the video is different from the time of my PC?

A7. The timestamp is based on the hardware system time of the IPcam. The real-time clock (RTC) inside the IPcam can be set by user remotely by updating the via Remote_Viewer utility, or locally via Setup utility.

Q8. Can I set up different IDs for different users under my authorization?

A8. Yes. The owner of AccountID is able to setup many UserIDs. (See User's Manual "Sub-Account Management")

Q9. How much bandwidth does the IPcam need?

A9. Normally, 16kb/s is the minimum to support PDA-Phone viewer, while 750kb/s is ideal to provide VGA at the resolution of 30 frames/s continuous motion and a good quality video. The default setting (Auto mode) of the Remote_Viewer is running at the speed of 200kb/s and QVGA resolution.

Viewer

<1> Software Utility Installation

Download "IPcam_Loader" utility from <http://www.ttipcam.com> , double click on it when finished. The IPcam_Loader GUI pops up.



Select the application utilities needed from **File to be updated** and click **Download**.

The IPcam can be used as an IPcam (IPcam mode) itself or a DVR (DVR mode).

The software utilities are listed below:

Setup: configure and/or view in LAN

emote_Viewer: view and/or record on Internet

DVR: view, record and/or playback in LAN

Double click on **Remote_Viewer**, a viewer User Interface (UI) pops up. The UI will allow user to log-in by using an AccountID/ Password or an IP address.

<2> Viewer utility

Remote_Viewer is the utility for users to view IPcams.

There are two ways to login, <A>Account ID and IP Address.

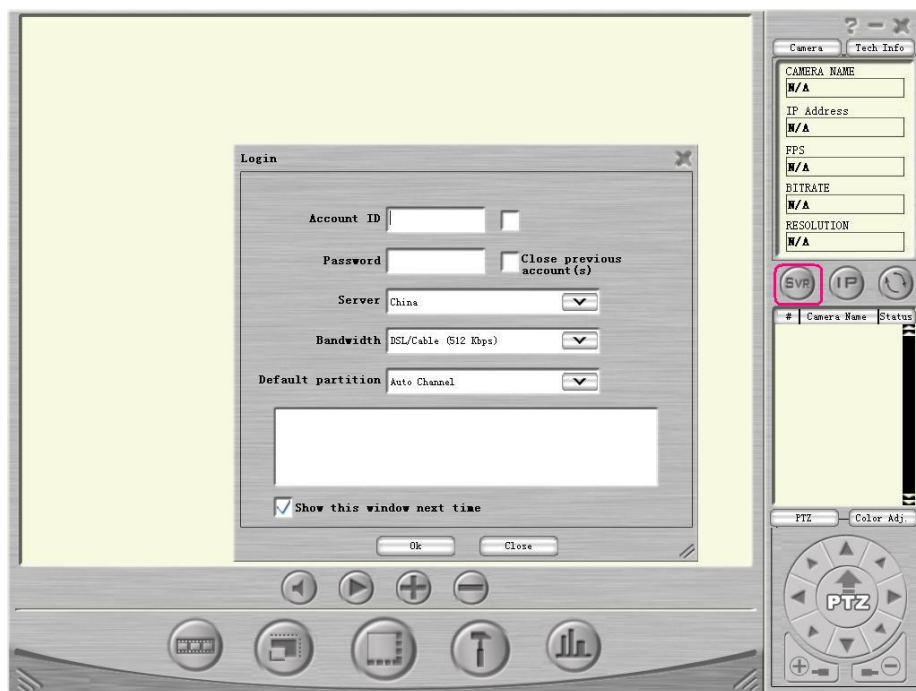
<A>Log-in by using Account ID

Click on the **SVR** icon, a log-in page appears.

1. Key-in your Account ID and Password.
2. Select the DServer. (the server that IPcam was registered to during setup).
3. Select the bandwidth.

Click **OK** to finish and the streaming video will show on screen.

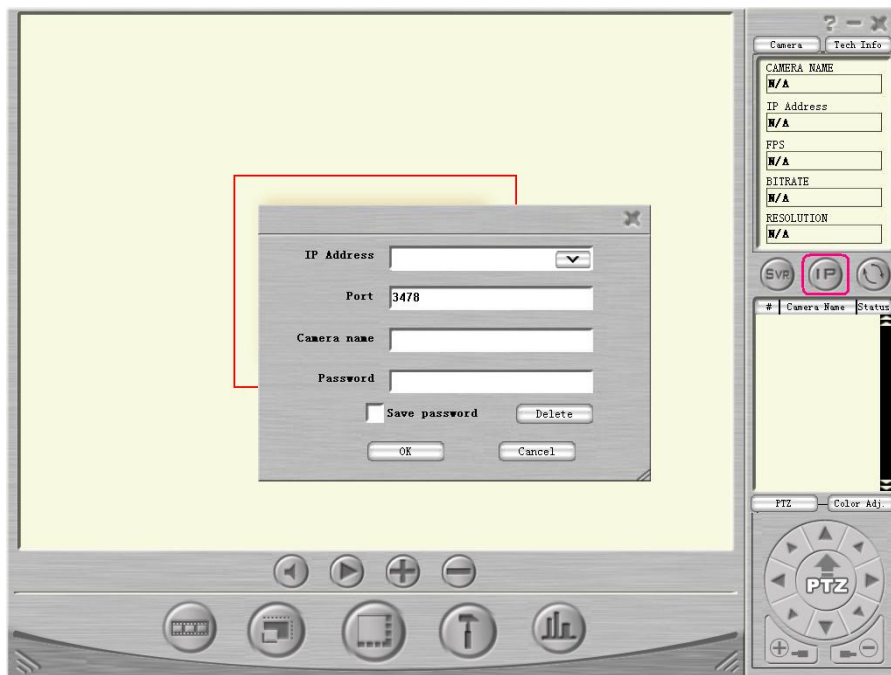
IPcam(s) that are registered to this Account ID will show on a list. Double click the IPcam you want to view its real-time streaming video.



Log-in by using IP Address

IPcam can be viewed by typing in its IP address, too. To do so, Allow to visit from Internet (on Network page of Setup utility) has to be enabled.

Click on **IP** icon, a login page for IP address appears.



1. Key-in the IP Address. It can be either a Public IP or a local IP.

Note: Allow to visit from Internet feature (on Network page of Setup utility) has to be enabled .

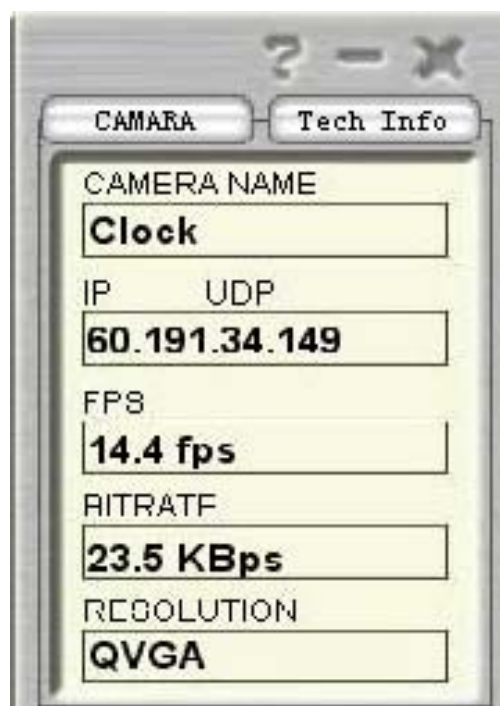
2. Give a name. Or the IP Address will be used as its name to be shown on list

3. Key-in the password if there's one set on Setup utility. Skip if not.

Click **OK** to finish and the streaming video will be displayed on screen.

<3> User Interface (UI)

<3.1>Camera Data



<3.2>Camera Name and Status



#	Camera Name	Status
1	Clock	▶
2	DVDPlayer	▶
3	fish-bowl	●
4	Taipei	●
5	street	●

Camera Name: IPcam(s) registered to this AccountID will display their names with current status on the list.

Double click on any online IPcam's name to see its streaming video on the display area.

Status: Indicates the IPcam is online, working, recording or off-line.

Click **CAMERA** to get to the page shown on the left side.

CAMERA NAME: The name user sets for the IPcam.

IP UDP: The IP address and communication protocol.

FPS: Frames-Per-Second

BITRATE: Bits-Per-Second

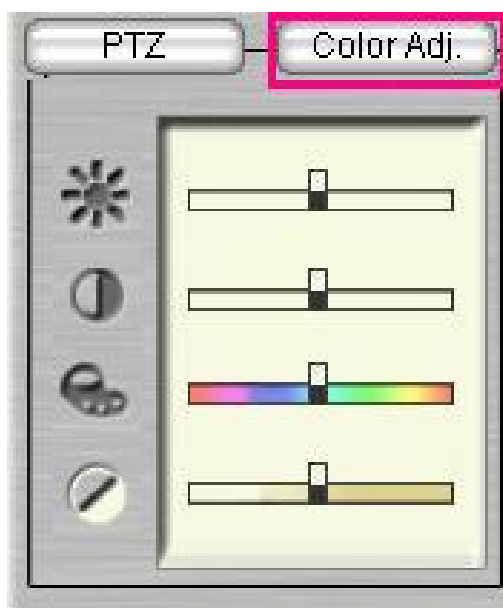
RESOLUTION: From D1 to QQVGA.

Brightness, Contrast, Hue and Saturation are all adjustable to get the best output video.

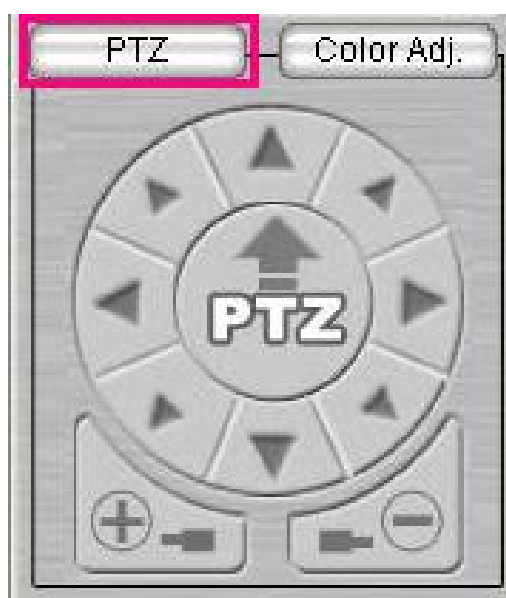
PTZ is only functional if the selected IPcam has PTZ function.

Click **PTZ** and get a PTZ basic control page as like the one shown on the left side.

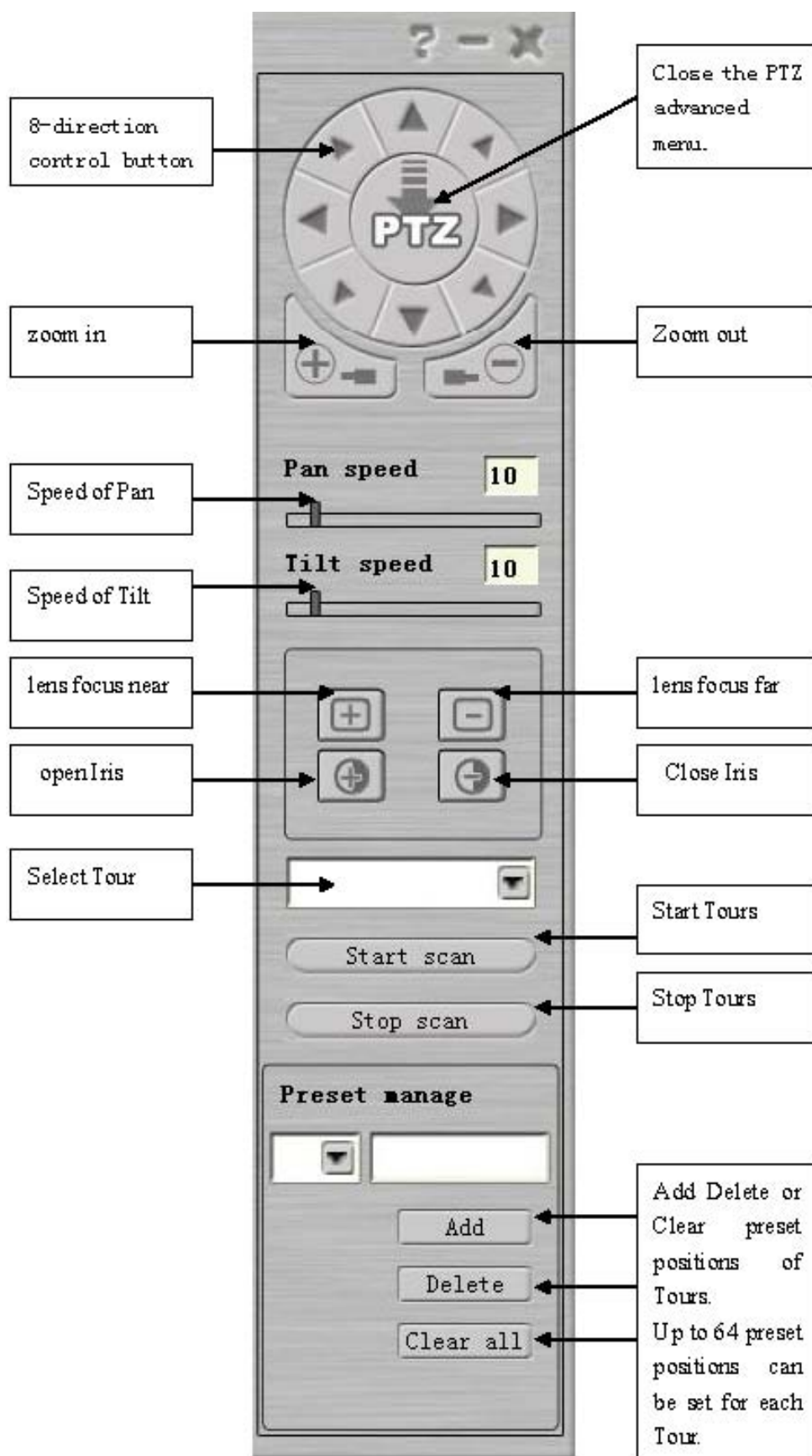
<3.3> Color Adjustment



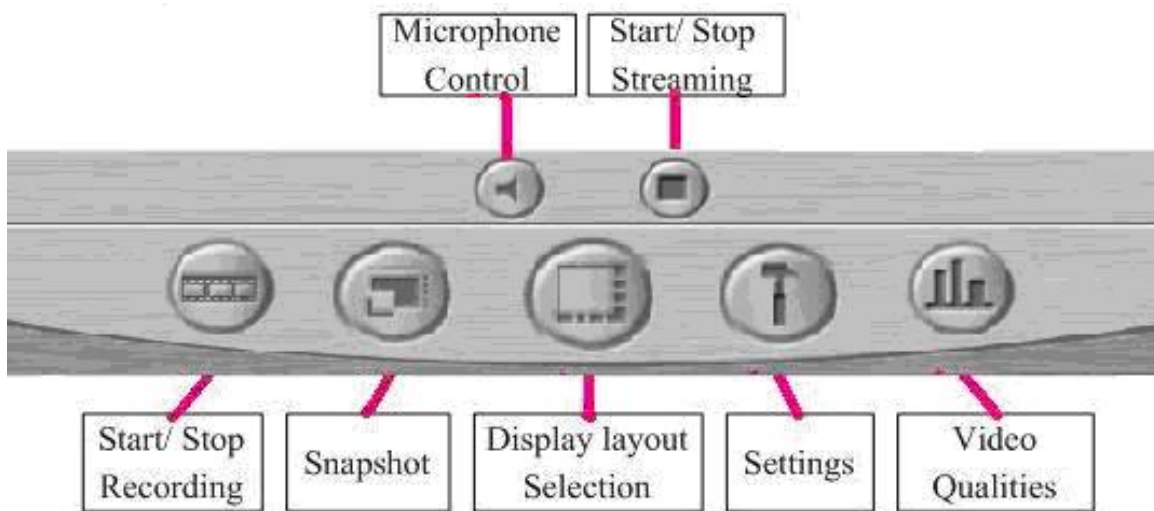
<3.4> PTZ



Click the **PTZ** in the center of the basic control page, the advanced PTZ control menu will pop up.



<3.5> Icons



Microphone Control

Click on speaker icon to turn on/ off the microphone of selected IPcam. The volume can be controlled by moving the position of the control bar.

Start/ Stop Streaming

The video is streaming after the selected IPcam is connected. It can be stopped when by clicking on the View/ Stop toggled icon. Mostly, users stop some video because the Internet bandwidth is too limited.

Start/ Stop Recording

This icon is to start or stop recording the streaming video of selected IPcam. The path of recording file is to be set in the "Settings" icon.

Snap Shot

Click this icon to get a picture of the video from the selected IPcam.
User can print the picture or save the picture into the local computer.

Display Layout Selection

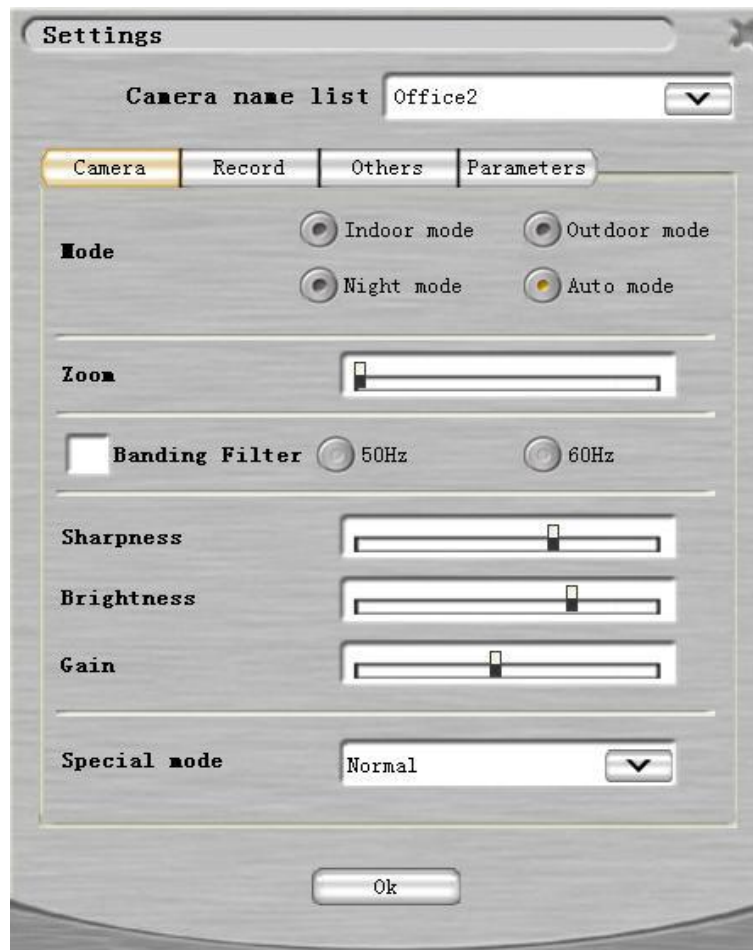
Click on this icon to pop out a list of display area layout options. User can select different designs of display area from one to sixteen channels any time.

Full-screen is available, too. Press the **Esc** key or double-click on it will return it back to normal.

<4>Settings

Click on this icon will pop up a settings page as following.

<4.1>Camera settings



Banding Filter: Check this feature to eliminate banding.

Zoom: Available for certain items only.

Sharpness: Move the bar to change video sharpness.

Brightness: Move the bar to adjust the brightness of video.

Gain: Move the bar to change the gain of the video source. The bigger gain the brighter the video, yet more noises.

Special mode: Different color-filters can be selected.

Click the **Camera Name List** icon to get a list of online IPcams. Select the IPcam to be setup by clicking on its name.

Indoor/ Outdoor Mode: Select this mode if installed indoor/ outdoor. The maximum FPS will be 15/ 30.

Night Mode: The maximum FPS of this mode is only 10. Used to support dark environments.

Auto Mode: Select this mode to fit into the environment automatically.

<4.2>Local Recording



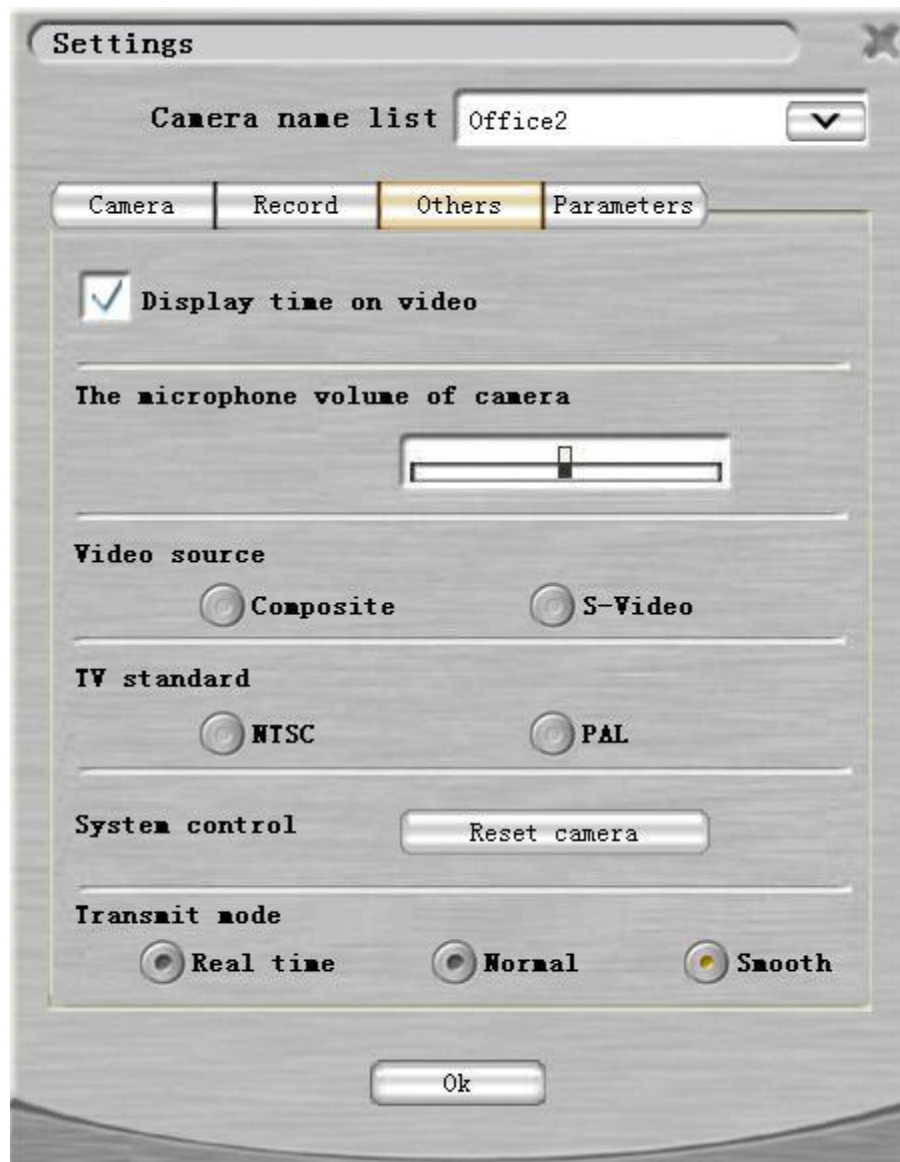
Rec. Content: Select Video and/ or Audio to be recorded.

Recording Path: This is the path where recording files were saved into.

User can browse the system by click the browser icon and select a proper path.

Rec. Time Table: User is able to pre-set the recording time table. Just set the start-time and stop-time of recording then click **Add** to add this pre-set event. Repeat this procedure and pre-set more events.

<4.3>Other settings



Display time on video: Enable this feature to display time on video.

DVIP Time: User is able to change the time of selected IPcam by clicking the pencil icon after typing In the time wanted.

Volume: Move the bar to adjust the volume of the microphone in IPcams.

Video Source: Select the video source.

TV Standard: Select the video type.

System Control: Click on **Reset Camera** to restart the selected IPcam.

Default Partition: User is able to select the display layout. Or, set to **Auto Channel** to display all devices.

<4.4>Parameters



Parameters: Parameters are very useful when calling for technical support.

Serial Number: is the device ID. It's the same number shown on Setup utility.

<4.5>Video Qualities:



The quality of a streaming video is the combination of resolution, frame-rate and bit-rate. To get the best quality of real-time streaming, it's important to select the suitable one according to the user's internet bandwidth.

It's recommended to select **Auto** mode. The system will automatically adjust the bandwidth according to the current network status.

Advance mode is for the users who are familiar with the

<5> Q&A

Q1. What kind of cable do I need to connect the IPcam to the network?

A1. The cable used for your PC will work for the IPcam, too. Technically, it's a category 5 UTP cable with RJ-45 plug-in connectors.

Q2. How do I keep my IPcam as private as possible?

A2. Do not share your AccountID/ Password with others. It is recommended to setup multiple Sub-Account for different viewers. (See User's Manual "Sub-Account Management")

Q3. How many users are allowed to watch my IPcam simultaneously?

A3. Only one user can view the IPcam over Internet at a time, unless the PMS Media Server is installed. But, all the viewers in LAN can view the IPcam simultaneously via DVR or Setup utilities.

Q4. What if I forgot my password?

A4. There are two kinds of passwords.

For security reason, password of the IPcam set by Setup utility is stored in the hardware and is unable to be retrieved. User has to hold the REC button and reboot the IPcam to erase the password. Please hold the REC button for 5 seconds, then push the RESET button.

Password set by Remote_Viewer utility (AccountID) can be retrieved. The system will reply after you correctly answer the security question you provided when registered.

Q5. Why there's no Video displayed?

A5. As an individual user viewing from internet, please check if you are behind a firewall. It's possible to get no video if both IPcam and viewer are behind firewalls or NAT Router. Consult your MIS to view from this environment.

Q6. Why the image is not clear enough?

A6. Adjust the lens that connected to the IPcam to get the best focus.

Another possibility is the low bandwidth. Video quality is limited by the bandwidth of network. User is recommended to adjust the resolution and frame-rate according to user's network environment.

Q7. Why the timestamp on the video is different from the time of my PC?

A7. The timestamp is based on the hardware system time of the IPcam. The real-time clock (RTC) inside the IPcam can be set by user remotely by updating the via Remote_Viewer utility, or locally via Setup utility.

Q8. Can I set up different IDs for different users under my authorization?

A8. Yes. The owner of AccountID is able to setup many UserIDs. (See User's Manual "Sub-Account Management")

Q9. How much bandwidth does the IPcam need?

A9. Normally, 16kb/s is the minimum to support PDA-Phone viewer, while 750kb/s is ideal to provide VGA at the resolution of 30 frames/s continuous motion and a good quality video. The default setting (Auto mode) of the Remote_Viewer is running at the speed of 200kb/s and QVGA resolution.

Remote_Playback

Player2008 includes remote playback and real-time streaming modes

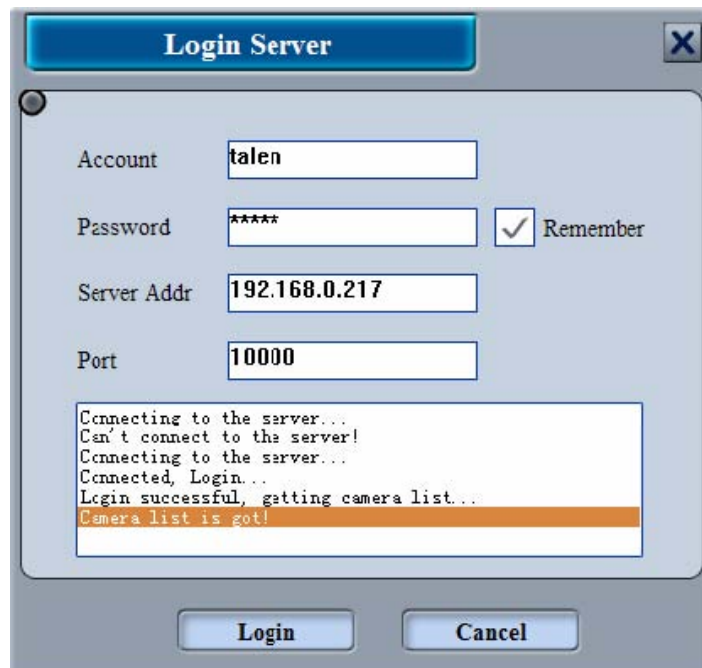
<1> Real Time Streaming

Main Interface :



<1.1>Logging in to server

Login Interface:



Enter account number, password, the server address, and port, then click the "Login" log server. Account number, password, the server address and port come from two sources. One from NVR authorized management, where NVR player is a client, the account is authorized by management settings. Another is from the PMS functions, the default account is "guest", and the password is the same as the camera's, the server address and port will be the name and port used in PMS registration.

After logging in successfully, you will obtain lists of cameras from the server.

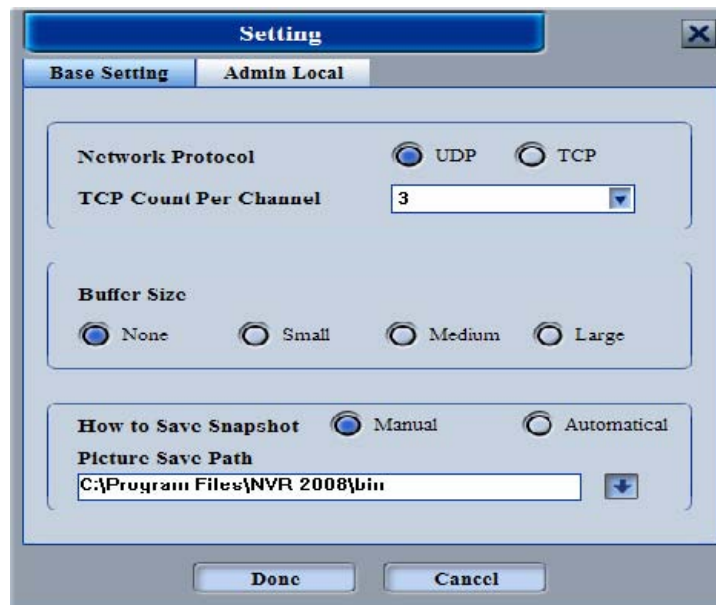
<1.2> System Settings

System settings include basic settings and local recording settings. This also includes communication protocols and buffer.

<1.2.1> Basic Settings

Media data reception includes both UDP and TCP, default reception as UDP. When reception set as UDP is unable to connect, Player automatically tries TCP connection; In addition, TCP supports multiple channel streaming. This can increase the speed of data transmission, reducing buffer period.

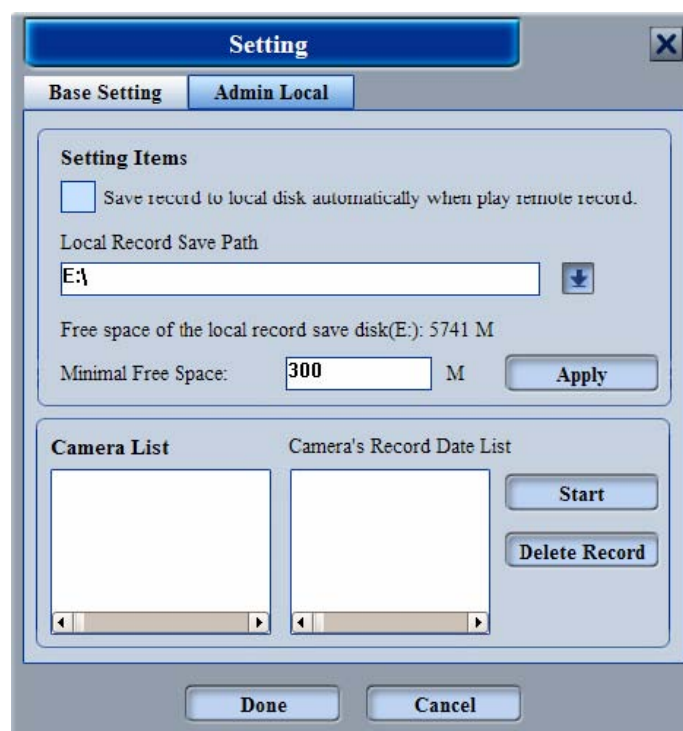
Local buffer settings allow you to adjust with or without buffer, buffer is set up when the network is unstable, enhances the broadcast of continuous images, but the images will be delayed for a period of time (usually about 10 seconds); The greater the buffer the stronger the continuity of images, at the same time buffer time and delay time will increase; if network conditions are good, the system can be set to no buffer, not only to maintain image but to also ensure the continuity of the real-time image.



Snapshots are stored manually or automatically. Automatic system is used for continuous snapshots. Upon completion of all the settings click "OK" to complete settings.

<1.2.2>Local Recording Management

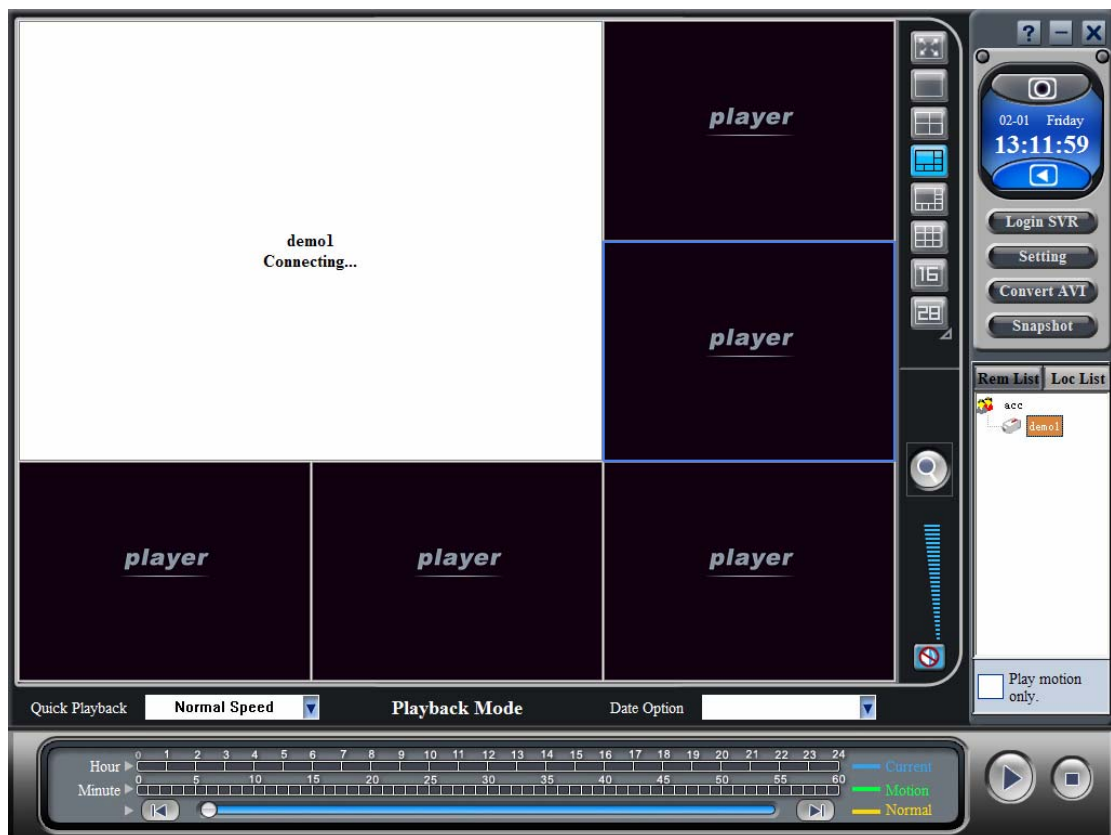
Local recording management has two functions, one is to download remote recordings and the other is the deletion of recordings. To download remote recordings : In system settings , when choosing remote playback, it will be automatically saved in LAN. After setting up save path and minimum reserve space, click “save settings”. Upon completion of all the settings , when playing remote playback it will be saved in LAN.



Deletion of recordings : click“start search” to show a list of recordings in different save paths. Choose the camera name and recording date, then click delete recording.

<2>Remote playback mode

Main interface as following :

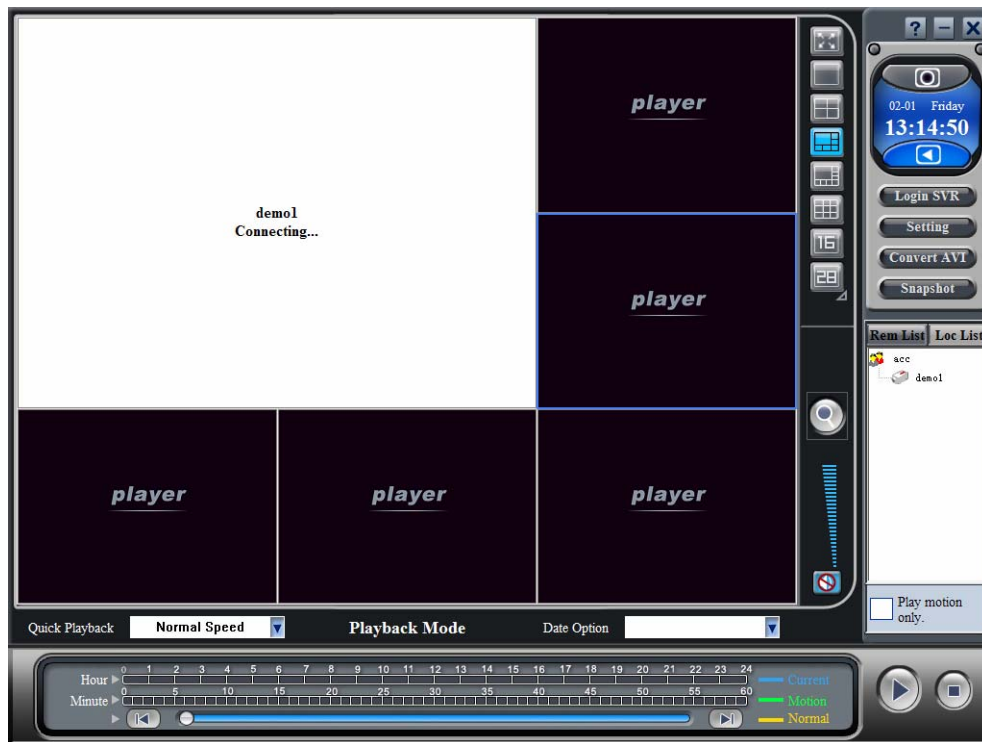


Remote playback mode has the same login servers and the same system settings with real-time streaming mode.

Playback have two modes , direct playback and search playback mode.

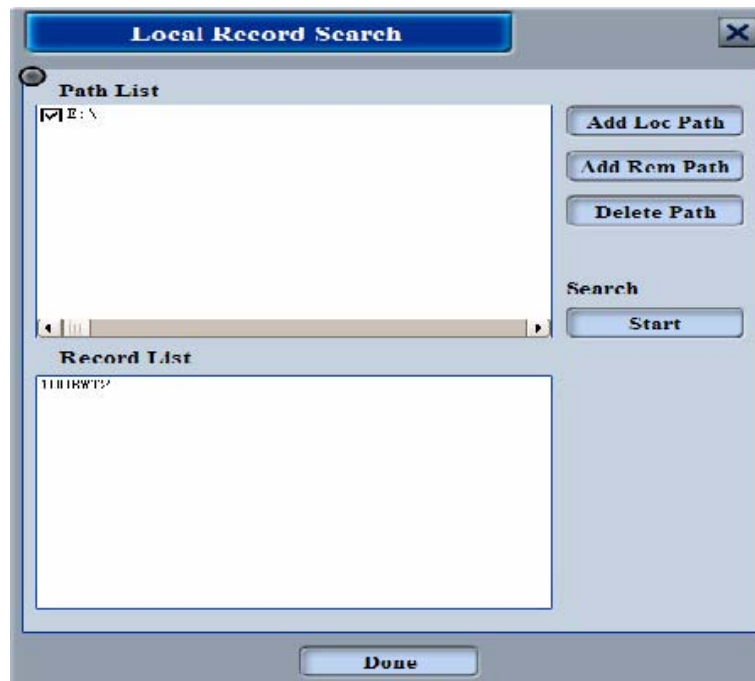
<2.1>group direct playback

After logging in successfully , double click the camera icon on the right side of the interface to play recording. User may adjust the time and progress.



<2.2>Search playback

Click  icon , to search.



Add path : Add recording save path.

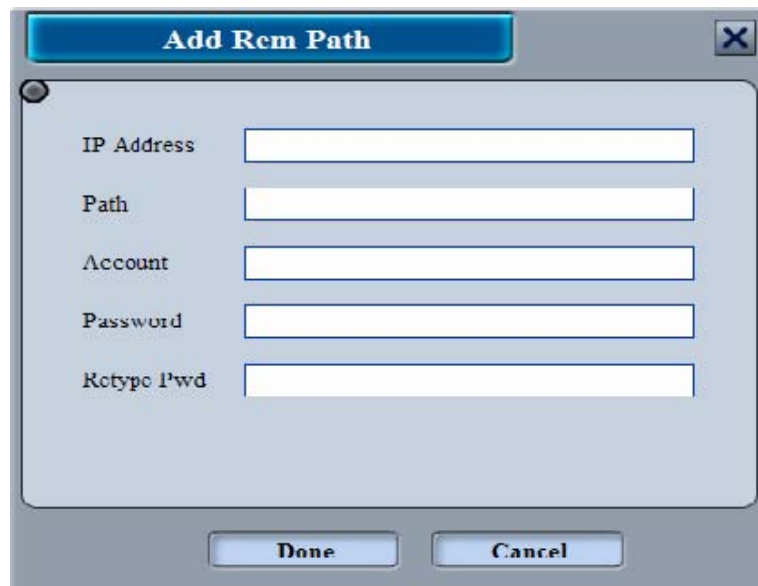
Add NAS : Save NAS to LAN

Delete : Delete recording save path

start : Start searching recording files

Select save path , then click start , after finding recording files , the list will display at the bottom.

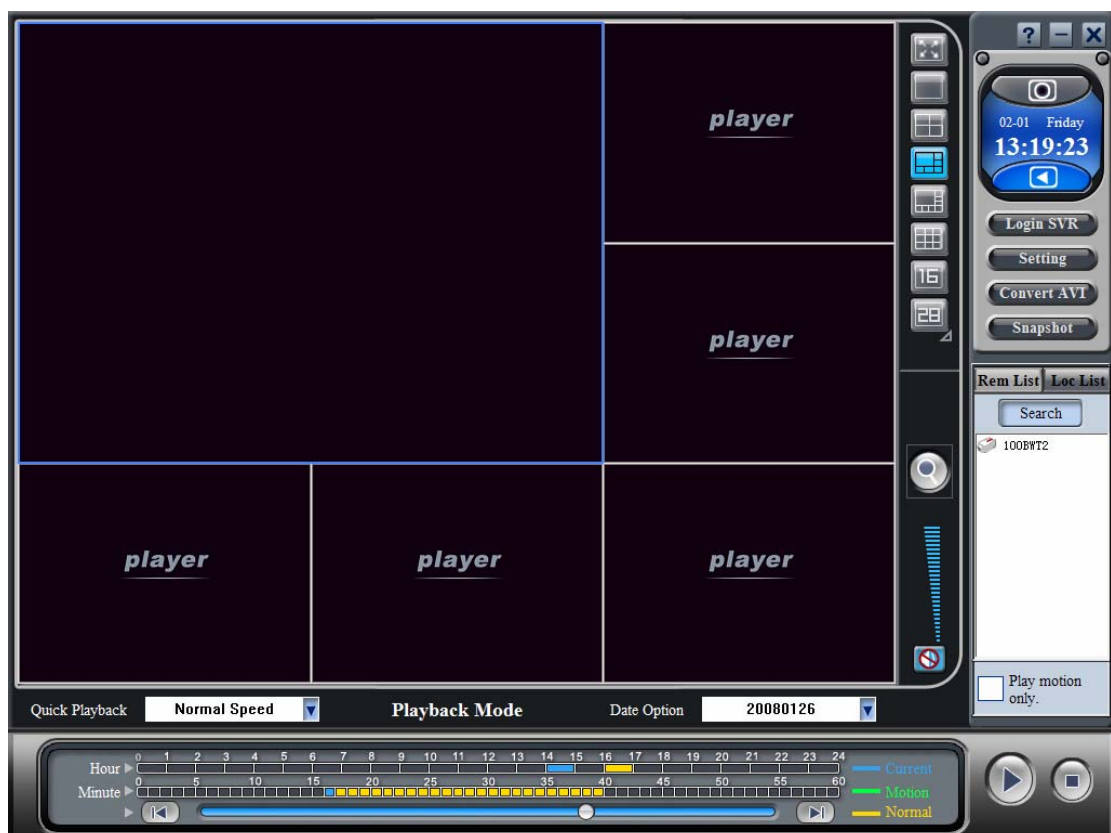
Add NAS

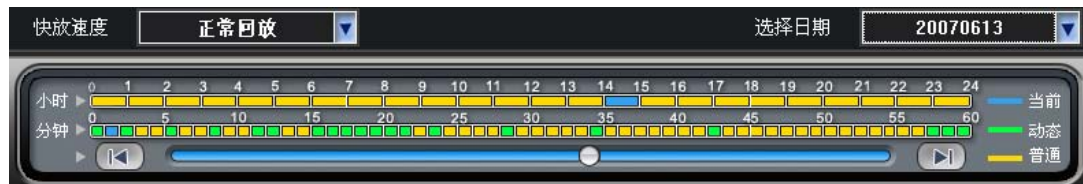


The 'Add Rem Path' dialog box is a light blue window with a title bar containing the text 'Add Rem Path' and a close button (X). Inside the dialog, there are five input fields arranged vertically, each with a label to its left: 'IP Address', 'Path', 'Account', 'Password', and 'Retype Pwd'. At the bottom of the dialog, there are two buttons: 'Done' and 'Cancel'.

Set NAS IP , path , NAS account and password to add to save path.

After searching, click ok to display results on playback list, double click the camera icon to play.





When single playback , user is able to use the quick playback function.Switchable playback speed :

Standard , 2xSpeed , 3xSpeed , 4xSpeed , 6xSpeed , 8xSpeed , 12xSpeed , 16xSpeed .

Blue bar states broadcast time

Green bar states the motion detection

Yellow bar states normal recording

Drag in the blue bar to adjust the time

<2.3>AVI Conversion

AVI Conversion is for recording files to convert to AVI format.

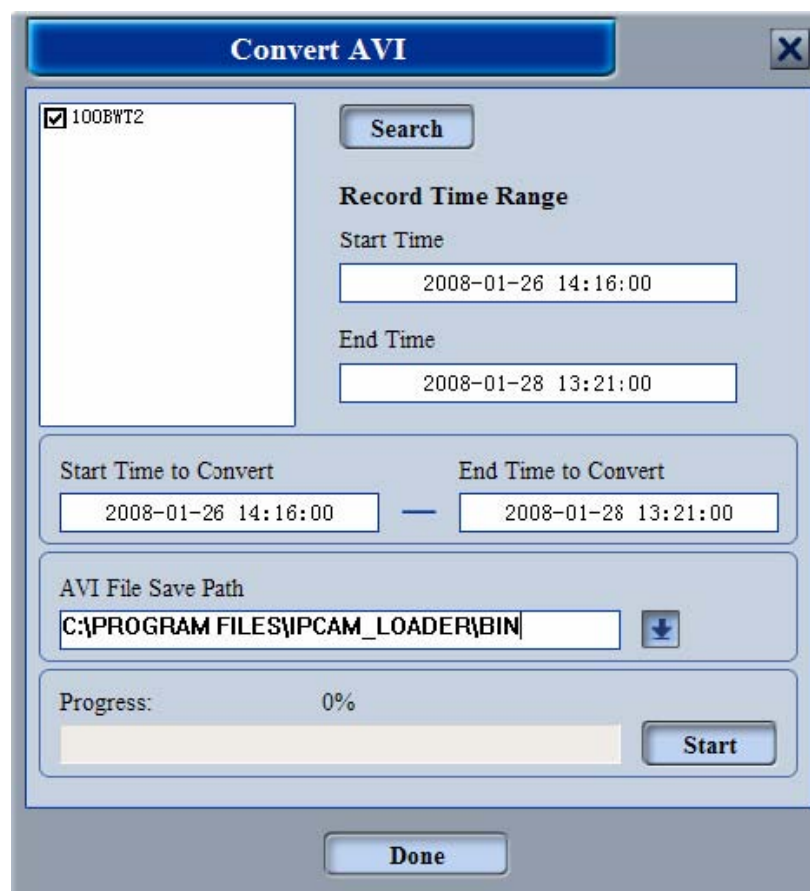
Choose camera to convert from camera list.

Video time-frame shows the start and end of recording of selected camera.

Select the time-frame wished to be converted from the recording.

Change the save path settings to AVI save path

Click convert , process bar will show the progress.



<3>Other

Video Split Screens : User can chose any format anytime.Press “esc” to quit full screen.



Split screens : User can choose up to 28, 36, 49 or even 64 split screens.

Mode switch : Click icon to switch preview mode or play mode. Preview mode displays one image per a few seconds , to save PC performance.

Volume Adjustment : User can adjust volume or mute.



Color Adjustments : User can adjust viewage effects by adjusting the color adjustment.

1. Brightness : Brightness adjustment of image
2. Contrast : Contrast adjustment of image.
3. Color : Color adjustment of image
4. Saturation : Saturation adjustment of image.



PTZ control : when selected camera have PTZ functions included , then“PTZ controls”can be used.

Click“PTZ controls”to maximize PTZ interface.

Click“PTZ” located in the center of the circle to access advanced PTZ control.



start and stop recording,

Stop recording is used to stop all cameras from real-time streaming.

Start recording is used to save real-time streaming in LAN.

PTZ Controls

Zoom Adjustment

Focus Adjustment

Iris Adjustment

Prefabricated selection box

NVR 2008

NVR 2008 includes group management, real time monitoring, recording, playback, and authorized remote playback via age.

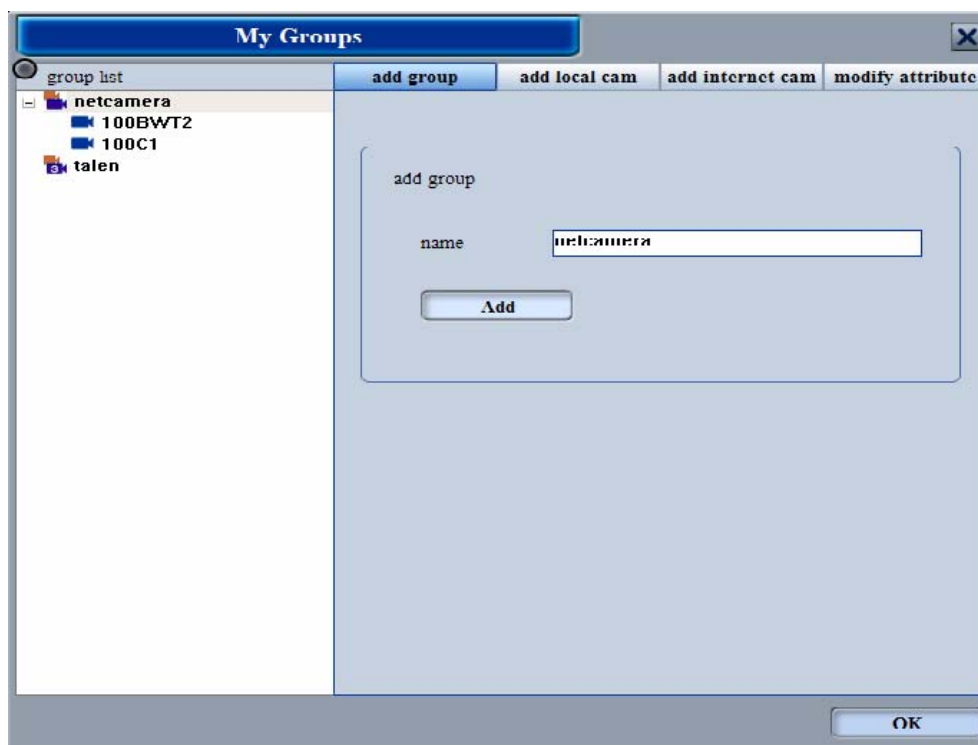
<1> Group Management

Before using NVR functions, user must add cameras, and manage them into groups.

Group management allows users to add group, add local camera, add network camera, and change attributes of group. (Camera and account attributes)

<1.1> Adding Groups

Before adding cameras, you must add a group first. Put group name into name column, then click add.

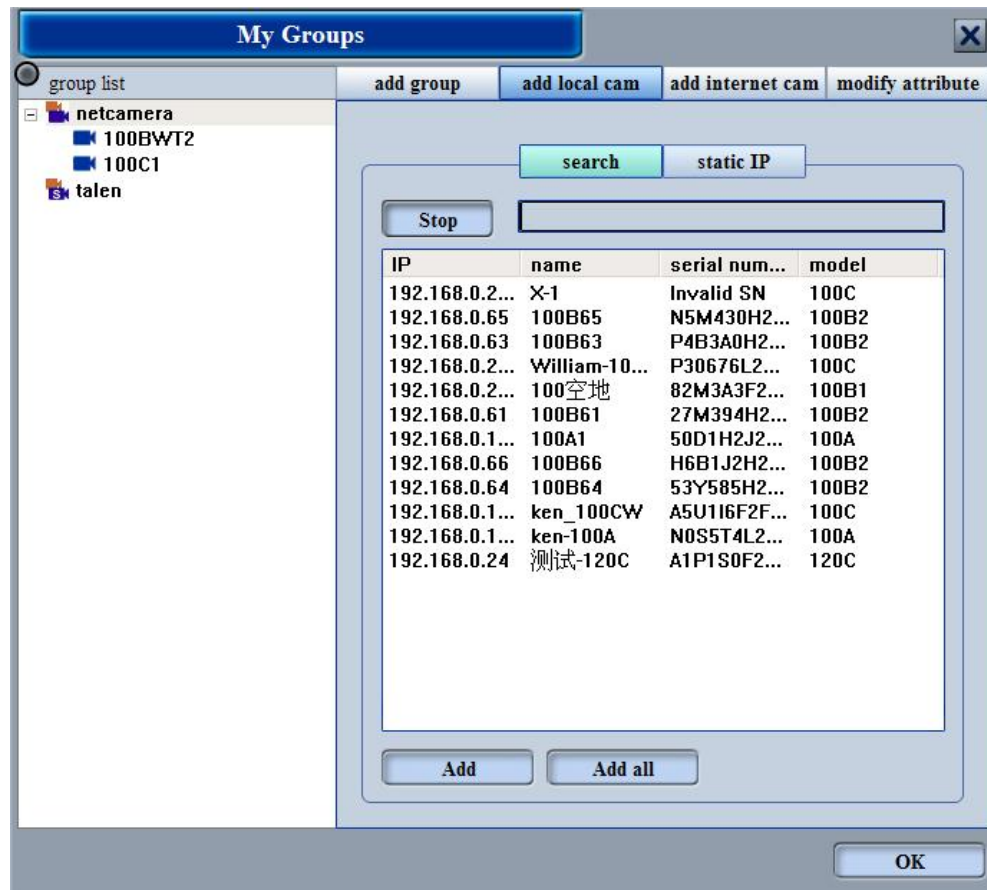


<1.2> Adding local cameras

Local camera can be added in two ways, by search or adding the static IP.

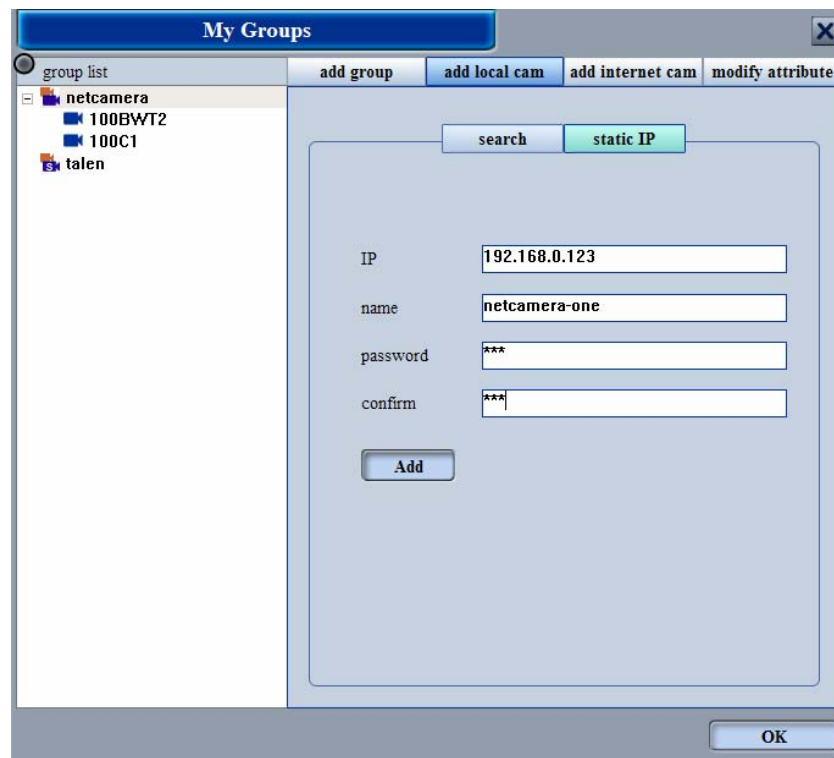
By Search:

Click Search, NVR will search for all cameras in LAN, user can add camera in specific group one by one or all at once.



By adding static IP:

Input camera IP, name, and camera password and select the group to be added in.

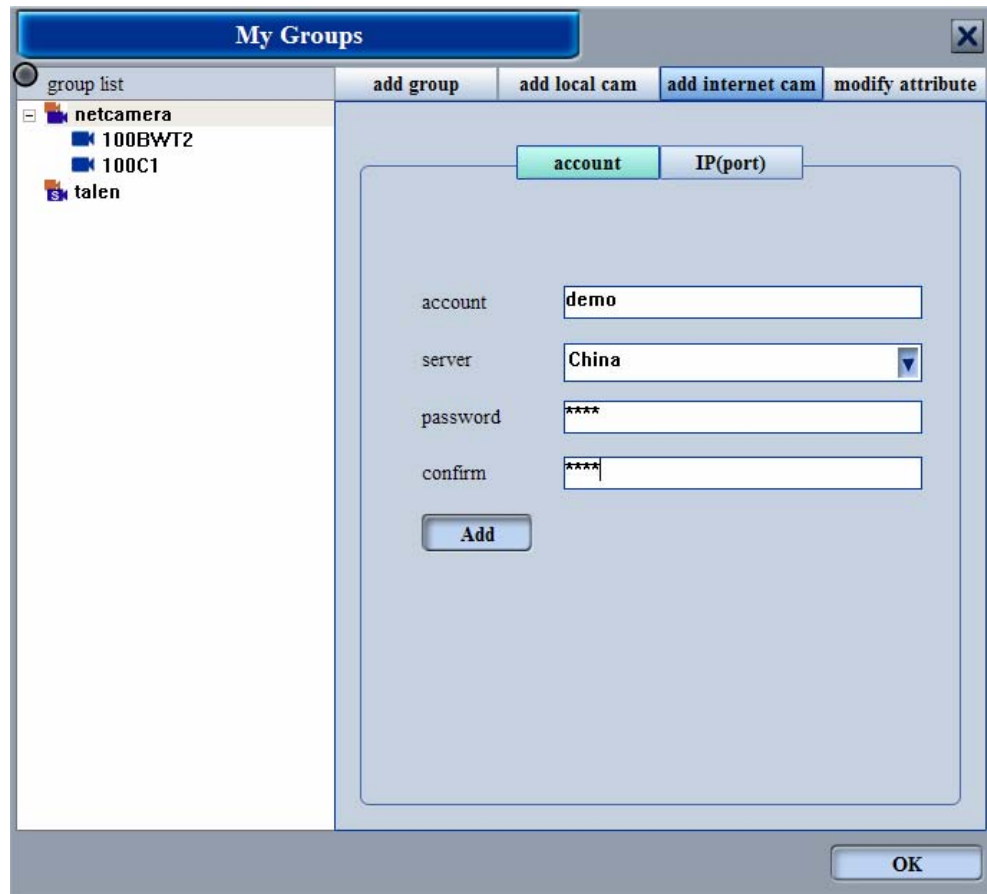


<1.3>Adding network camera

Network camera can be added in two ways, by account or IP (Port) .

Account:

Select group to be added, input name, account, password, and server. Groups added by account can not be mixed with groups added by IP.



IP (Port) :

Through IP (port) , it is required to add group first, then add remote camera.

Input remote router or camera IP (router or camera is directly connected to public network), Port number (default as 3478), name, and camera password.

The screenshot shows the 'My Groups' window with the 'add internet cam' tab selected. On the left, a 'group list' pane shows a tree structure with 'netcamera' expanded, containing '100BWT2' and '100C1', and 'talen' below it. The main area has tabs for 'account' and 'IP(port)', with 'IP(port)' selected. It contains input fields for 'IP' (69.35.156.76), 'port' (3478), 'name' (demo1), 'password' (***), and 'confirm' (***). An 'Add' button is at the bottom of the form, and an 'OK' button is at the bottom right of the window.

<1.4>Attributes

User may modify local groups, local cameras, account, and network cameras.

User may modify group names; delete groups, and clear camera operations.

The screenshot shows the 'My Groups' window with the 'modify attribute' tab selected. The 'group list' pane on the left has 'talen' selected. The main area contains input fields for 'name' (talen), 'account' (talen), 'server' (China), 'password' (*****), and 'confirm' (*****). 'Delete' and 'Update' buttons are at the bottom of the form, and an 'OK' button is at the bottom right of the window.

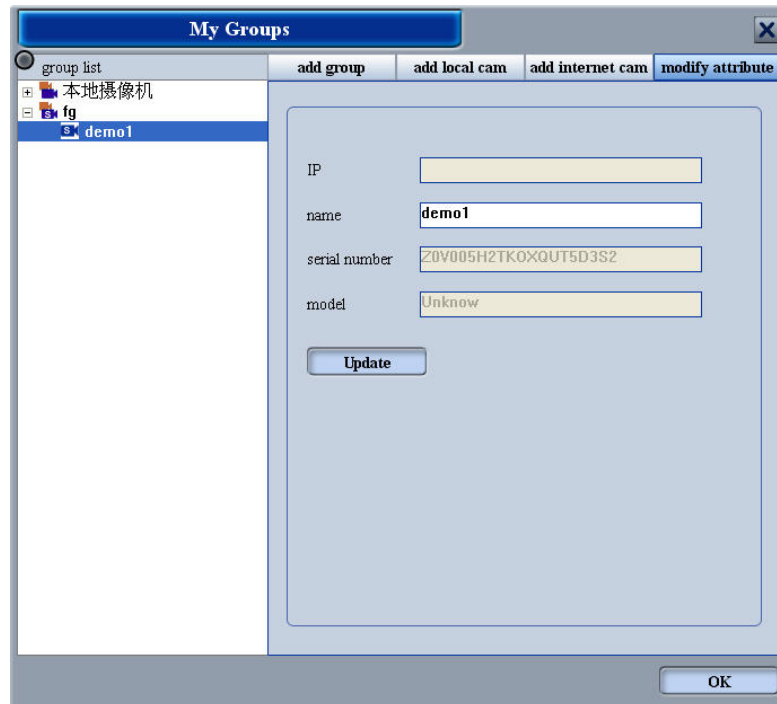
User may modify camera name, delete camera, or move camera to another group.

The 'My Groups' window displays a list of groups on the left and a form for modifying attributes on the right. The 'group list' on the left includes 'netcamera' (expanded), '100BWT2', '100C1', and 'talen'. The 'modify attribute' tab is active, showing fields for IP (192.168.0.220), name (100BWT2), password (masked with asterisks), confirm (masked with asterisks), serial number (Z0V005H2TKOXQUT5D3S2), and model (100B2). Below the fields are 'Delete', 'Update', and 'Move to' buttons. An 'OK' button is at the bottom right.

User may modify account name, server, or delete account.

The 'My Groups' window displays a list of groups on the left and a form for modifying attributes on the right. The 'group list' on the left includes 'netcamera' (expanded) and 'talen'. The 'modify attribute' tab is active, showing fields for name (talen), account (talen), server (China), password (masked with asterisks), and confirm (masked with asterisks). Below the fields are 'Delete' and 'Update' buttons. An 'OK' button is at the bottom right.

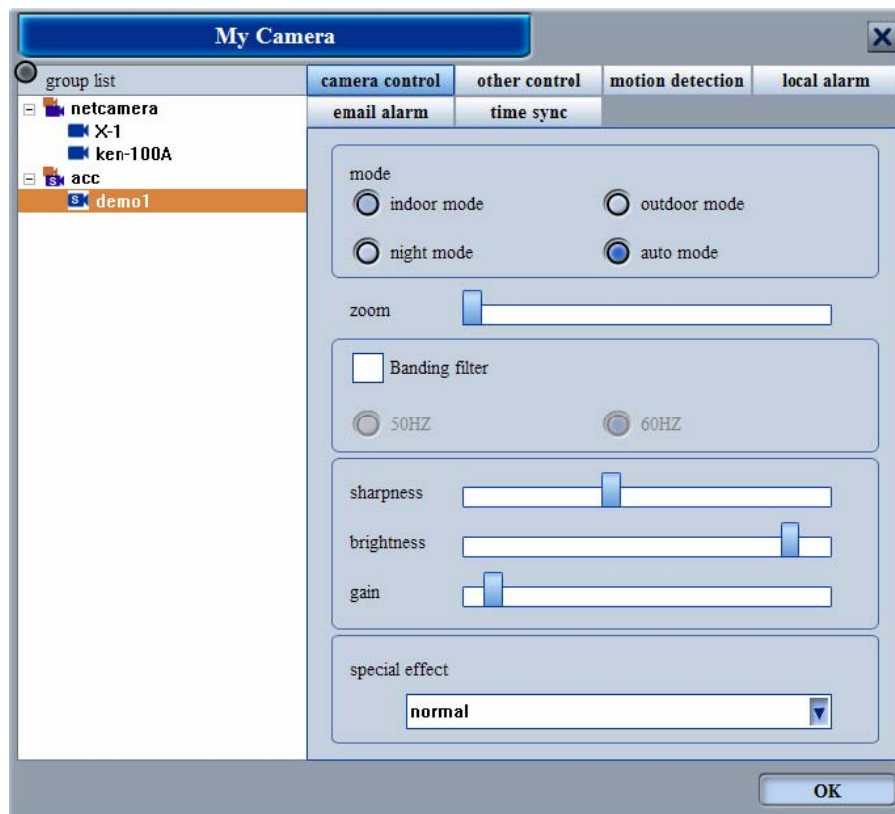
User may modify camera name



<2>Camera settings

Camera settings have six major functions: PTZ control, other controls, motion detection, local alarm, E-mail alarm and synchronization. Before setup, user must select camera wished to be modified.

<2.1>PTZ control



PTZ control:

Mode: User may choose out of the four environment modes.

Zoom: User may adjust the zoom of the image

Banding Filter: User may choose between 50Hz or 60Hz.

Sharpness, brightness, gain may be adjusted.

Effect: Special effects for the image

The screenshot shows a PTZ control interface with the following settings:

- ☒ backlight compensation
- mode1 (dropdown menu)
- ☐ Banding filter
- ☐ fixed shutter
- sharpness (slider)
- brightness (slider)
- gain (slider)
- Y (slider)
- CB (slider)
- CR (slider)

<2.2>other controls

The screenshot shows the 'My Camera' control window with the following settings:

- group list
 - netcamera
 - X-1
 - ken-100A
 - acc
- camera control
 - email alarm
- other control
 - time sync
- motion detection
- local alarm
- ☒ display time
- video source
 - ☒ Composite
 - ☐ S-Video
- mode
 - ☐ NTSC
 - ☒ PAL
- reboot
 - reboot
- image control
 - vert mirror
 - hori mirror
- OK

User may switch on or switch off the timer on the camera screen.

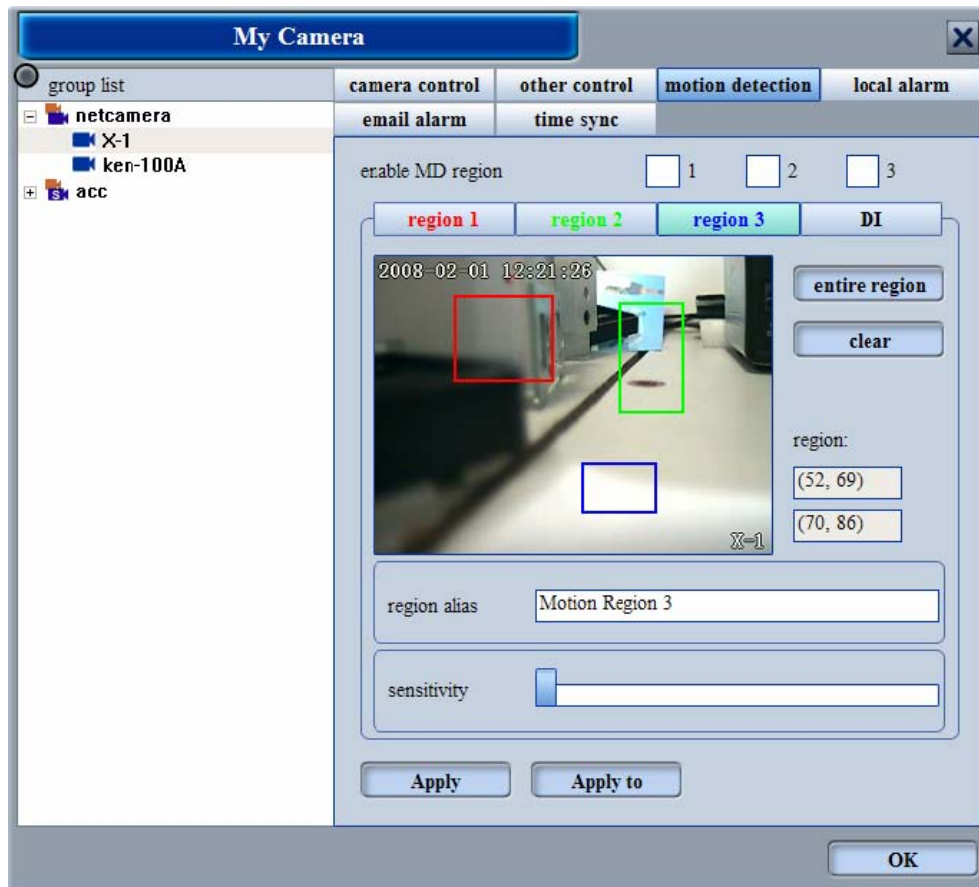
Video input source: User may choose between Composite or S-Video. This is not needed for 100B series.

Standard mode: User may choose between NTSC or PAL.

System control: User may reboot camera.

Vertical and Horizontal mirror: User may adjust image.

<2.3>Motion Detector



Regional Choice: User may choose up to three regions, use the mouse to select region.

Opening motion detector: Check the region wished to open.

Sensitivity: user may adjust the sensitivity of the motion detector.

Regional name: User may have a name for a regional motion detector, that name will be used on e-mail alarm.

If user wishes to do the same for other cameras, user may use the “apply to...” function.

After Setup, selected camera will show three little men at the bottom-left corner.

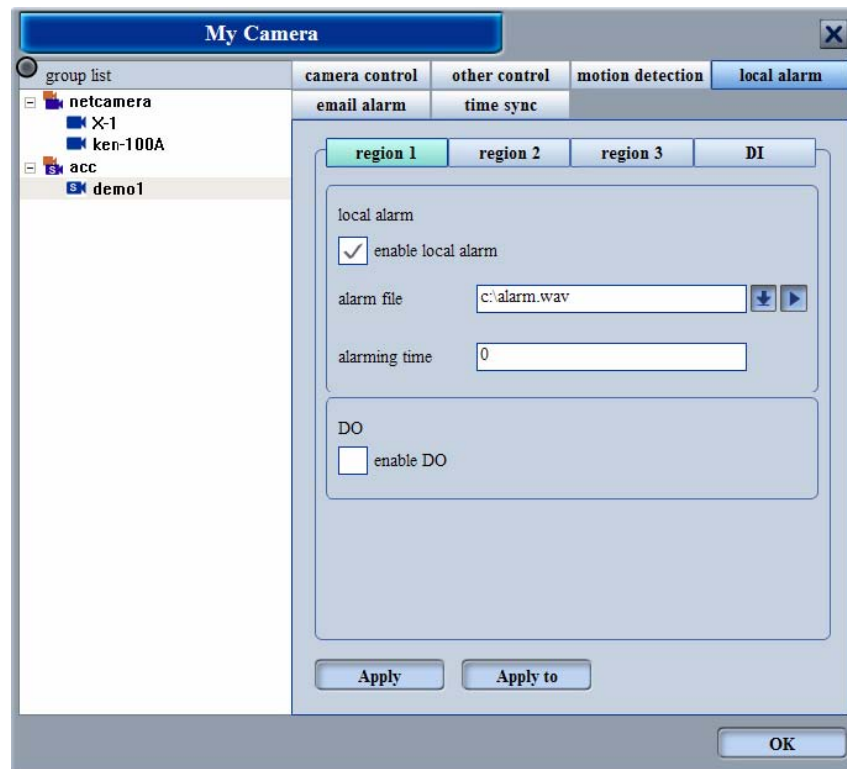


: represents all regions are detecting motion, different colors represent different regions.



: When the all lights go off, that means no motion is detected.

<2.4>Local Alarm

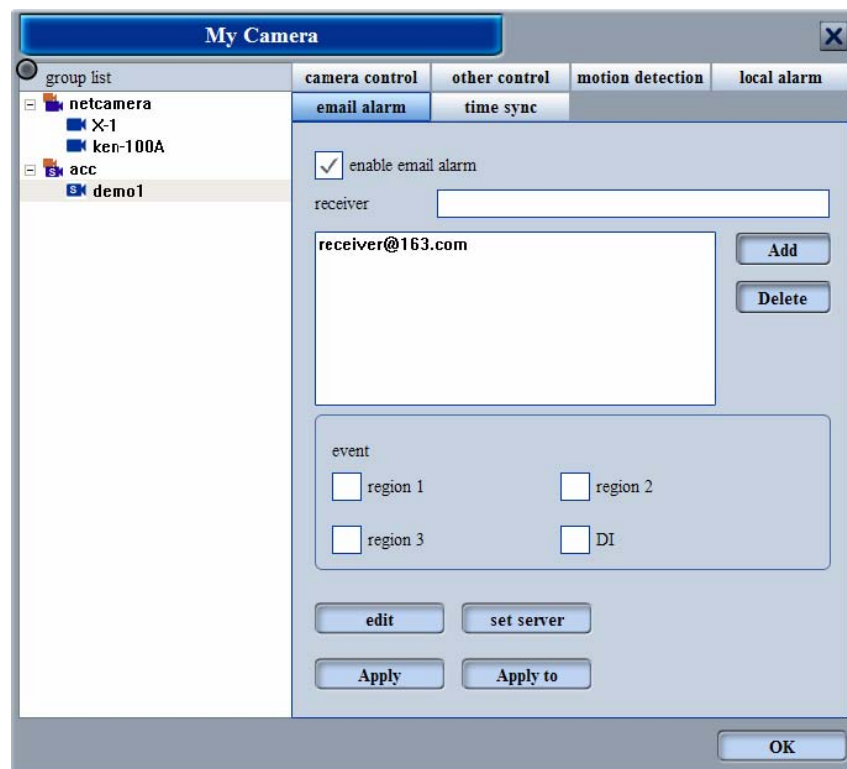


User may use local alarm settings.

Alarm sound can be chosen by user. User may setup the alarm length, if not, default is around 5 seconds. After DO input, user may setup the alarm output.

<2.5>E-mail Alarm

If user uses e-mail alarm, then system will send an e-mail alarm when motion is detected.

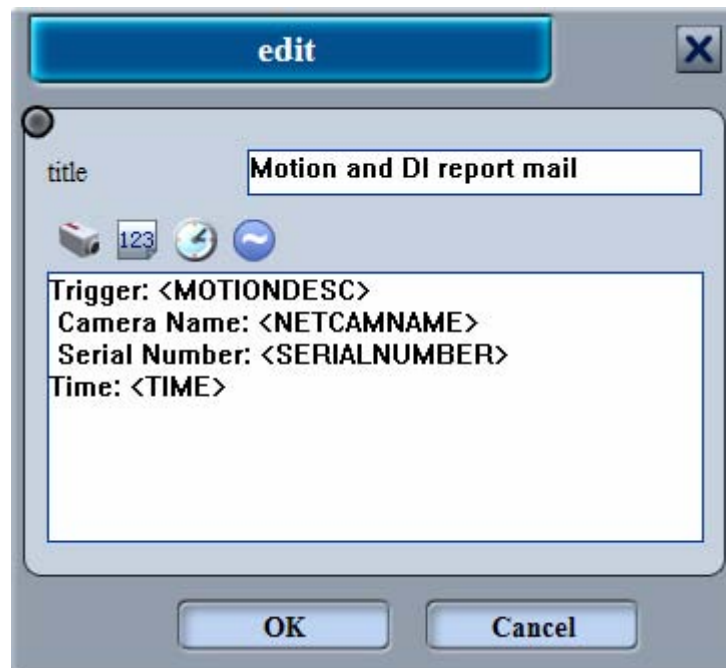


User may add or delete e-mail recipients.

Click "E-mail edit" to change the subject of the mail.



The four icons as following: camera name, serial number, alarm time, and alarm region. System has a default setting



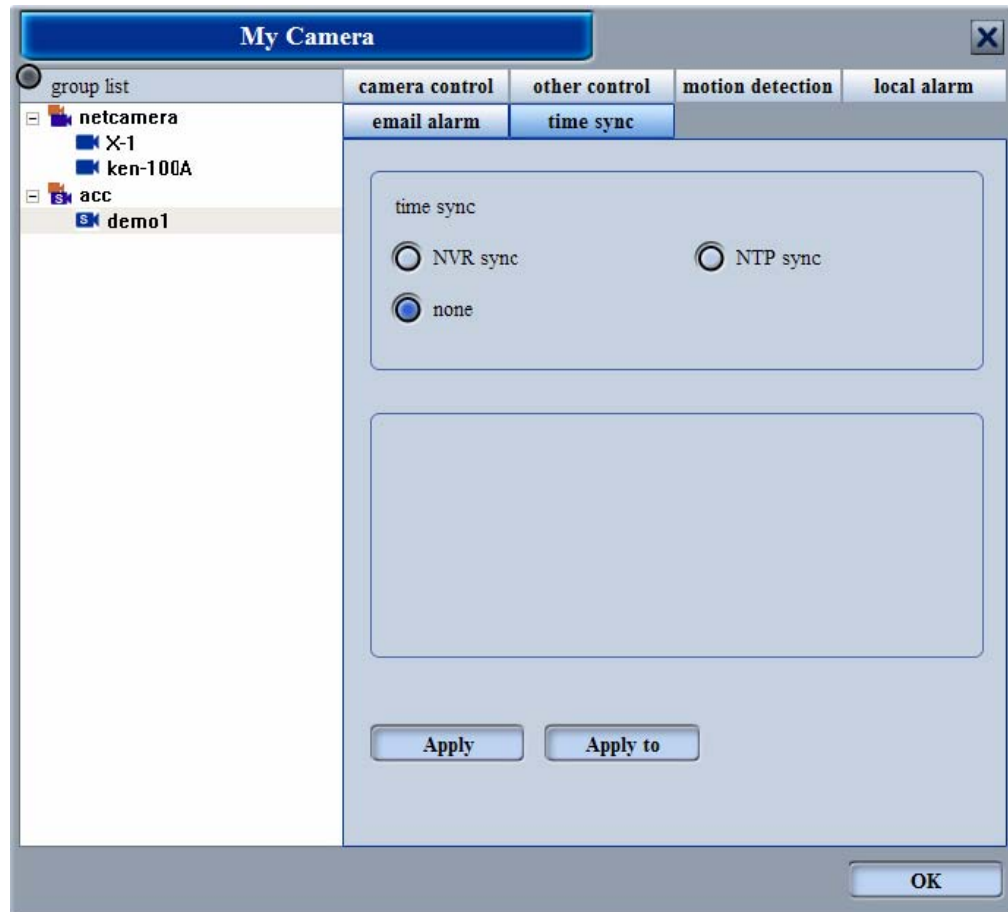
Server Settings: Verification is needed for the sender. Input mail server, sender, and sender's account and password.



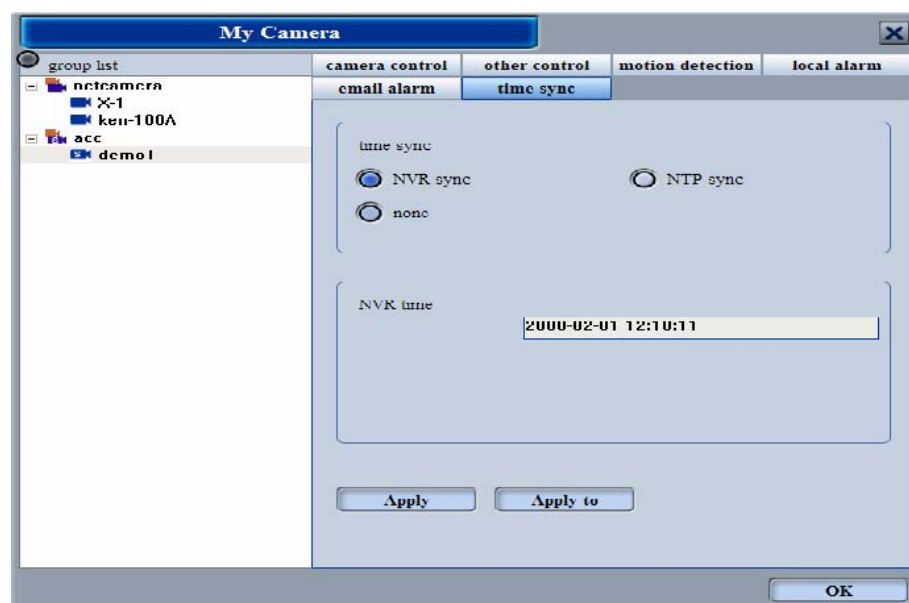
<2.6>Time Synchronization

There are three ways to set time synchronization: NVR time sync., NTP time sync., and no time sync.

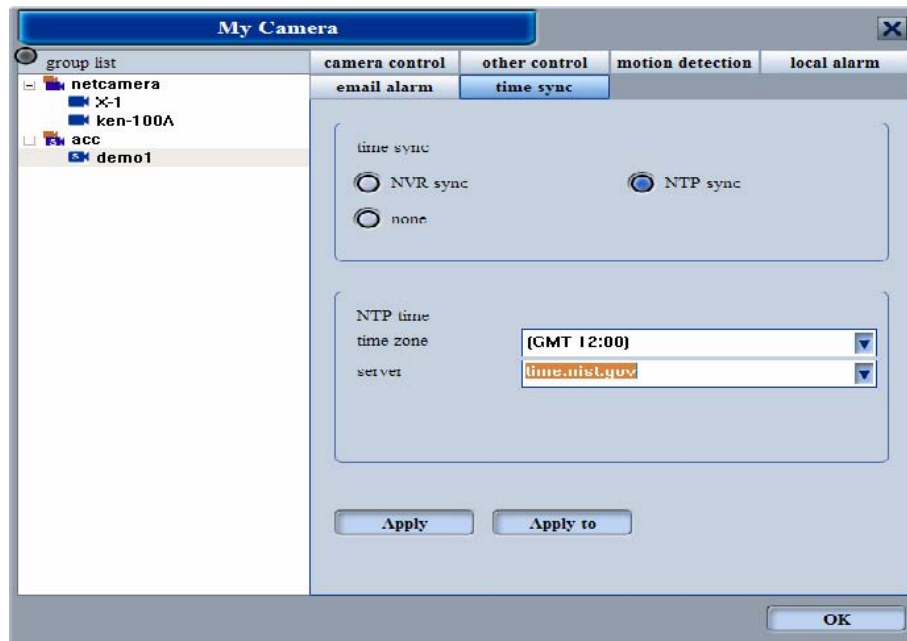
When set as no time sync., nothing will change.



When using NVR time sync., NVR automatically reads the clock on the computer. If the time is still not correct, modify the clock on the computer.



When using NTP time sync., it is only required to setup time zone and time server.



After setup, use "Apply to..." to apply to another camera.

<3>Recording Settings

Recording settings is split into two parts: basic settings and group settings.

<3.1>Basic settings

Including recording path, retention time, and storage policy.

The screenshot shows a 'record setting' window with two tabs: 'basic setting' and 'group setting'. The 'group setting' tab is active. It contains a 'path list' table with columns 'seq...' and 'path'. The first row has '1' in the sequence column and 'D:' in the path column. To the right of the table are radio buttons for 'local path' (selected) and 'NAS path'. Below these are labels for 'path', 'account', 'password', 'confirm', and 'alias', each followed by a corresponding input field. The 'C:', 'E:', and 'F:' drives are listed in the first path input field. At the bottom left, there's a 'retention (days)' label and a text box containing '10'. Below that, 'storage policy' is shown with radio buttons for 'write over wh' (selected) and 'stop when full'. An 'Apply' button is at the bottom right. The overall window has a blue header bar and a close button in the top right corner.

Recording paths are divided into local paths and NAS paths.

Local path is when it is saved in the local drive directly.

NAS path needs to be set.

IP: NAS IP address

Path: NAS recording save path.

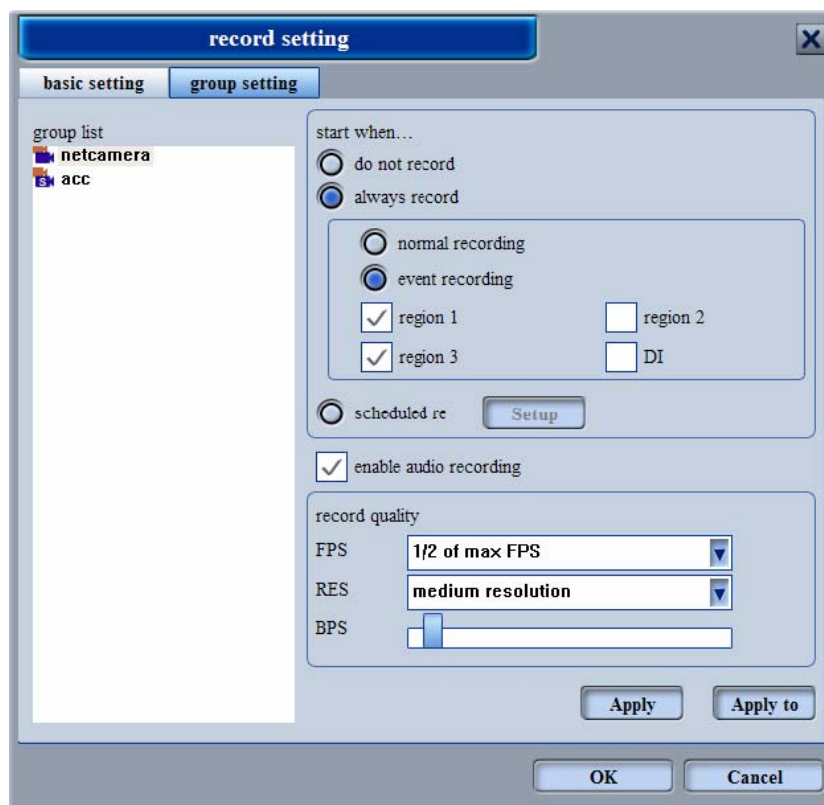
Account, password: NAS account and password.

Name: Input chosen name.

Retention time: the days of recording retention

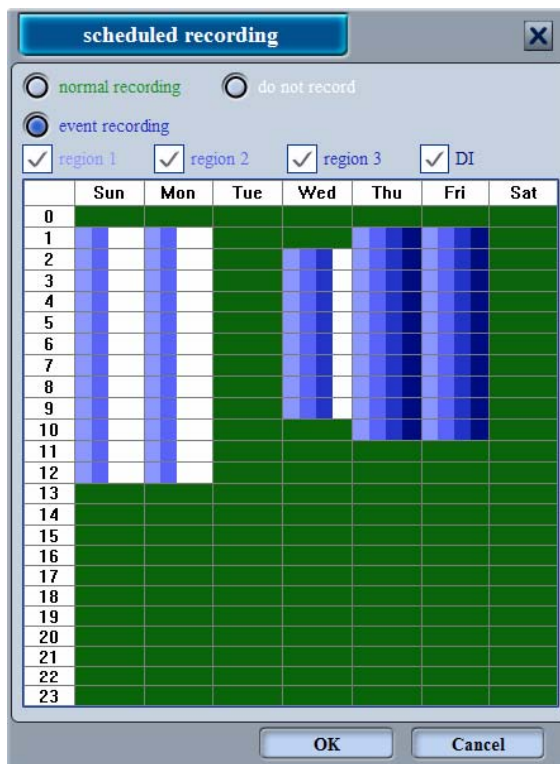
Storage policy: User may choose between to overwrite or to stop when maximum capacity is reached.

<3.2>Group Settings



Choose a camera group from the group list, user may adjust the audio, FPS, RES, and BPS of the camera.

Always record have two functions: Regular recording and event recording. Default is set as regular recording. Event recording requires setting motion detection, when detected, camera starts recording. scheduled recording requires schedule settings.



Regular recording: Select the time-frame wished to be recorded. The selected ones will turn bright green.

Event recording: Select the detection region, then select the time-frame wished to be recorded. The selected region will turn into different colors of blue.

If user wishes to cancel the time-frame, user must select no recording first.

Recording schedule chart shows the a week(7 days) and time(24 hours).

User can choose to include audio or not.

When recording quality and screen size is set, and the camera is recording, you may not modify camera settings. You must stop recording, then modify.

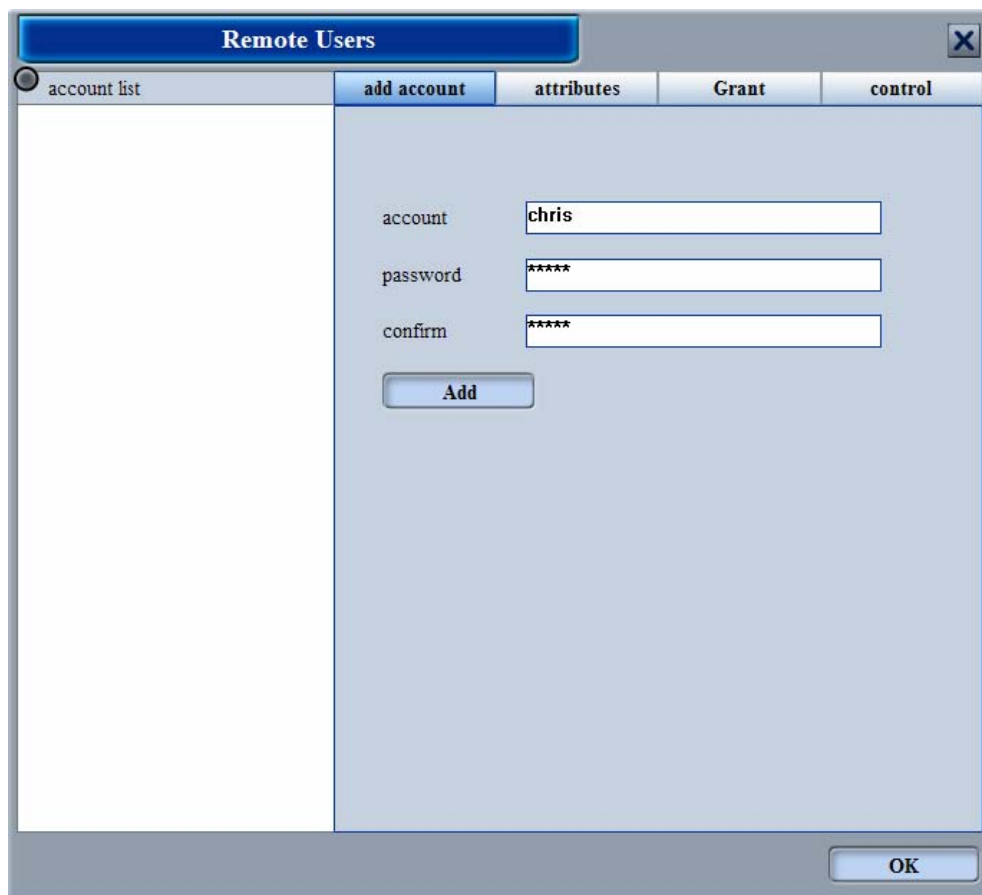
"Apply to..."allows user to use this camera settings on others.

<4>Authorization Management

Authorization management is used for user authorization to visit NVR.

<4.1>Add account

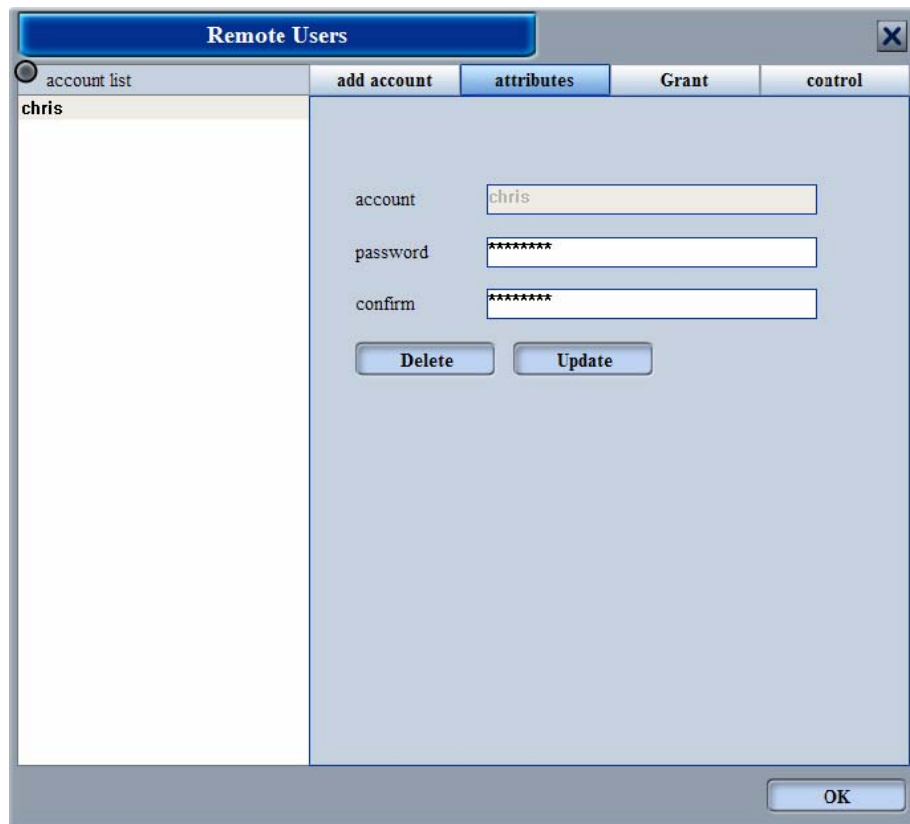
Before client visits NVR, it is required to add account in the authorization management. like below, insert account and password to finish.



The screenshot shows a window titled "Remote Users" with a close button (X) in the top right corner. The window has a tabbed interface with four tabs: "account list", "add account", "attributes", "Grant", and "control". The "add account" tab is currently selected. On the left side of the window, there is a list box labeled "account list" which is currently empty. On the right side, there are three text input fields: "account" with the value "chris", "password" with masked characters "*****", and "confirm" with masked characters "*****". Below these fields is an "Add" button. At the bottom right of the window is an "OK" button.

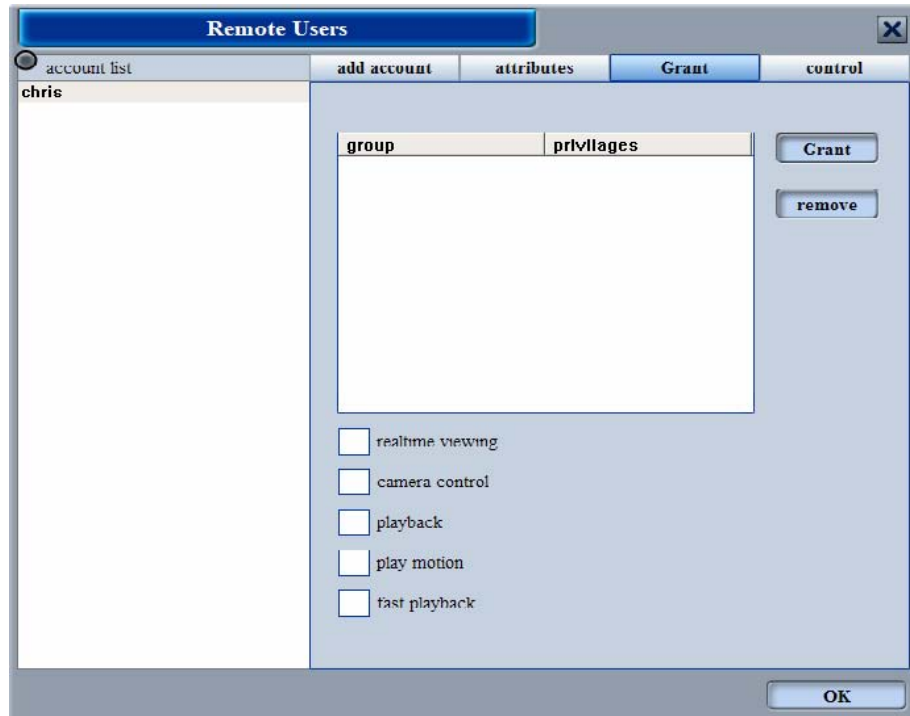
<4.2>Account Attributes

Select added account; user may change the password in account attributes.



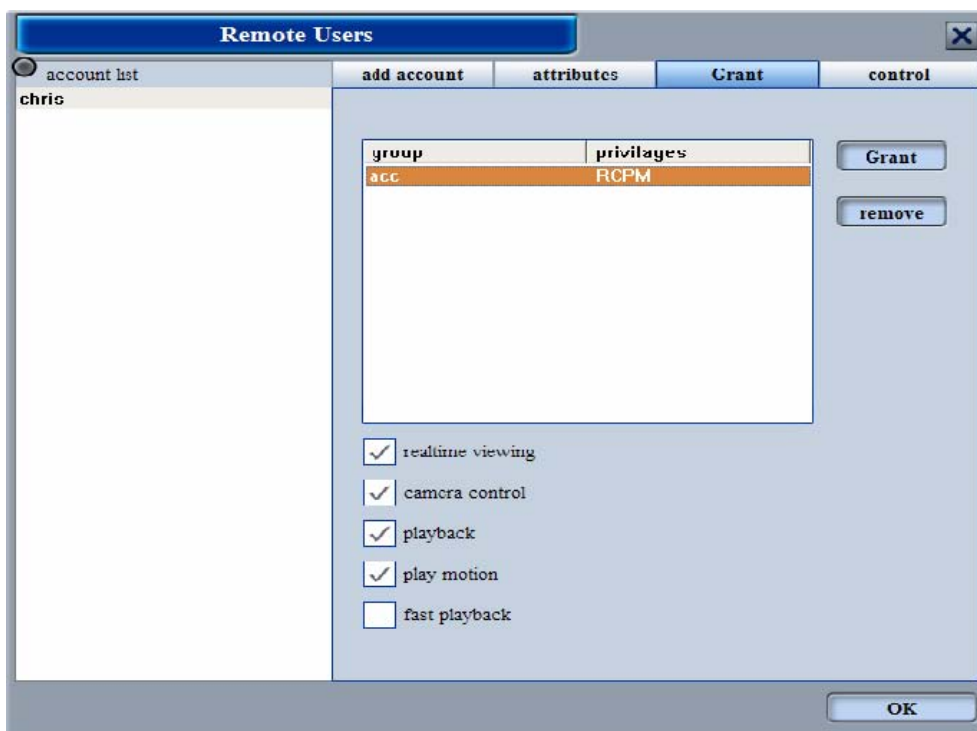
The 'Remote Users' dialog box is shown with the 'account list' tab selected. The 'account list' on the left contains the name 'chris'. The 'attributes' tab is active, displaying input fields for 'account' (containing 'chris'), 'password' (containing seven asterisks), and 'confirm' (containing seven asterisks). Below these fields are 'Delete' and 'Update' buttons. The 'add account' tab is also visible. An 'OK' button is located at the bottom right of the dialog.

<4.3>Authorization

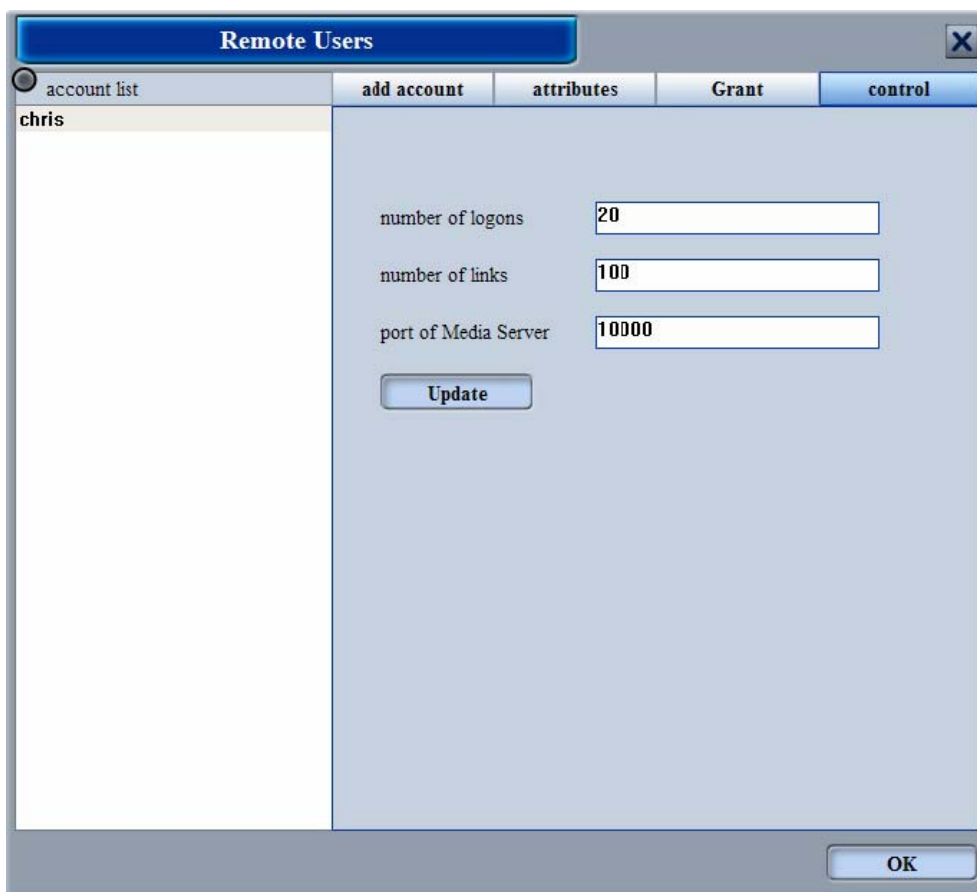


The 'Remote Users' dialog box is shown with the 'Grant' tab selected. The 'account list' on the left contains the name 'chris'. The 'Grant' tab displays a table with two columns: 'group' and 'privileges'. The table is currently empty. To the right of the table are 'Grant' and 'remove' buttons. Below the table, there are five checkboxes for privileges: 'realtime viewing', 'camera control', 'playback', 'play motion', and 'fast playback'. An 'OK' button is located at the bottom right of the dialog.

Click the authorize button, select group, then select the authority of the client.
Selected group will show a list of authorities. User may modify the authorities.



<4.4>Authorization Control



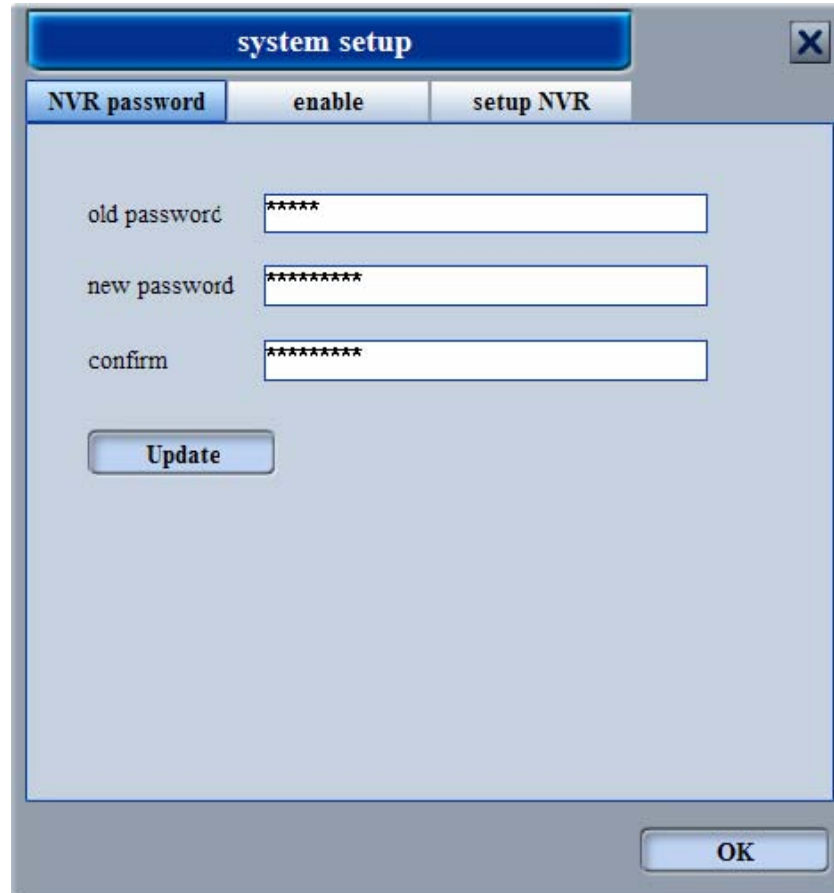
Authorization Control sets account limitations online at once, cameral limitations, and media server port. Port range is around 10000~11000.

<5>System Settings

System settings include NVR password, launch settings, and NVR configurations.

<5.1>NVR Password

Input old and new password to change passwords.



The screenshot shows a 'system setup' dialog box with a blue title bar and a close button (X) in the top right corner. Below the title bar are three tabs: 'NVR password' (selected), 'enable', and 'setup NVR'. The main area contains three text input fields labeled 'old password', 'new password', and 'confirm', each with masked characters (asterisks). Below these fields is an 'Update' button. At the bottom right of the dialog is an 'OK' button.

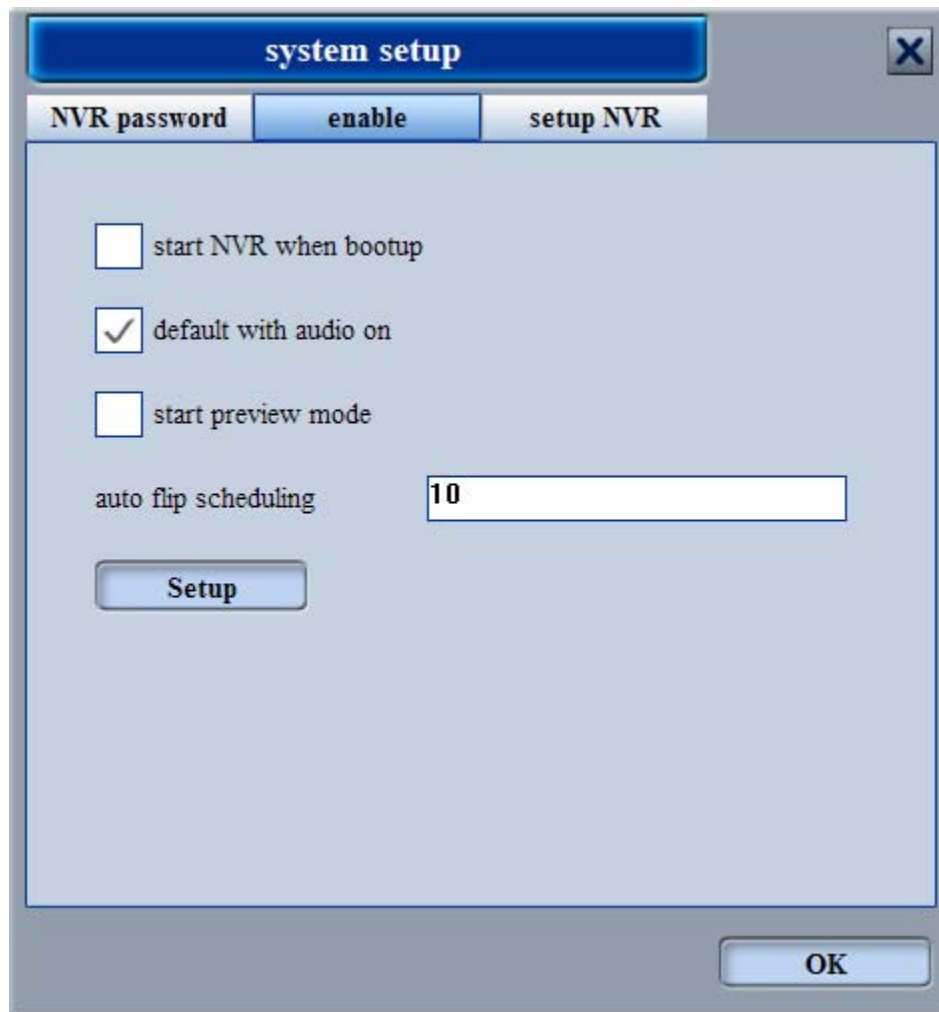
User may also lock the software, a password is required when opening or closing software.



The screenshot shows an 'NVR password' dialog box with a blue title bar and a close button (X) in the top right corner. The main area contains a single text input field labeled 'password'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

<5.2>Launch Settings

Launch settings selects the default each time NVR launches.



User can choose to auto run NVR when windows start.

User can choose to set camera audio on each time NVR runs.

User can choose to set preview mode as default.

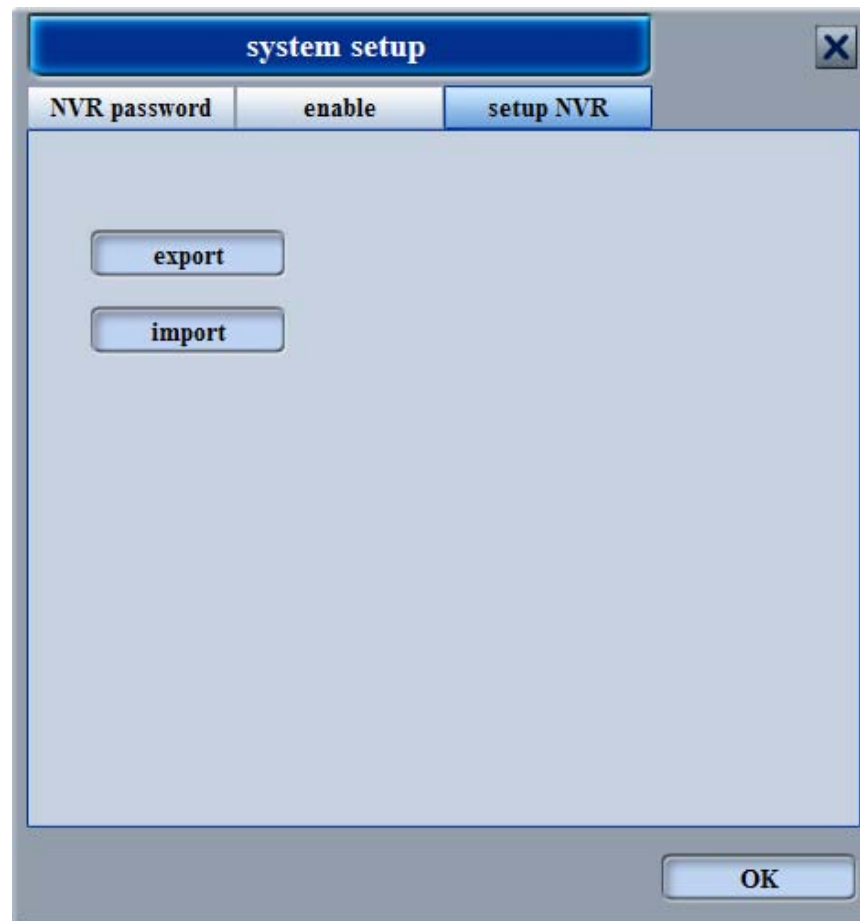
Time of auto flip: The time gap between the flip of pages, default is set as 10 seconds.

<5.3>NVR Configuration

NVR Configuration has two functions: export and import.

After the completion of configuration settings, export function can be used for backup configuration file.

To restore the original configuration, Import function can be used to backup the original configuration file. .



<6>Playback

There are two types of playback: group direct playback and search playback.

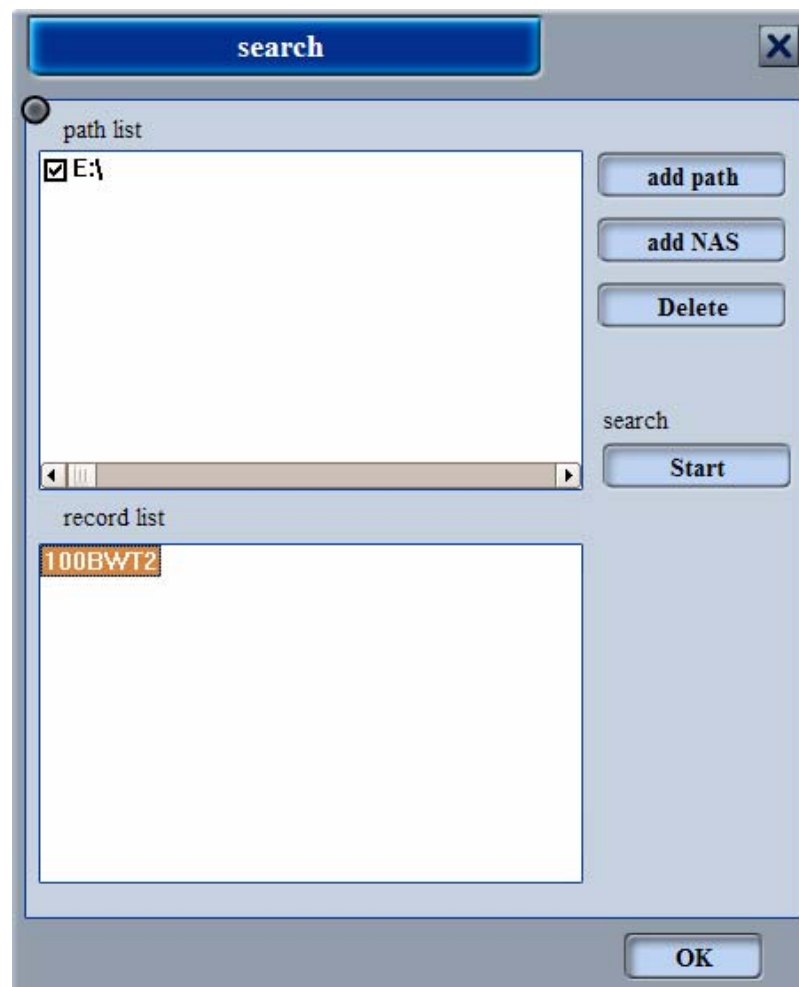
<6.1>Group Playback

After recording setup, double click the camera icon on the right side of the interface to play recording.

User may adjust the time and progress.



<6.2>Search playback



Click  icon, to search

Add path: add recording save path.

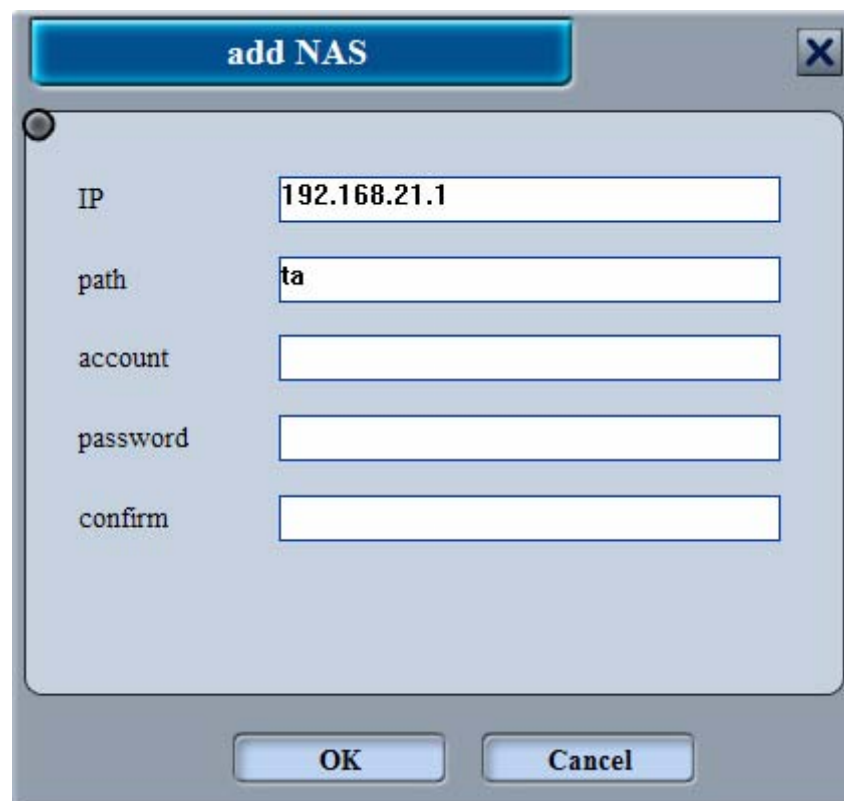
Add NAS: save NAS to LAN

Delete: delete recording save path

start: start searching recording files

Select save path, then click start, after finding recording files, the list will display at the bottom.

Add NAS

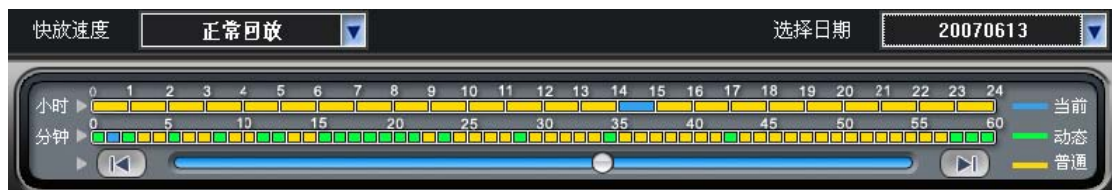
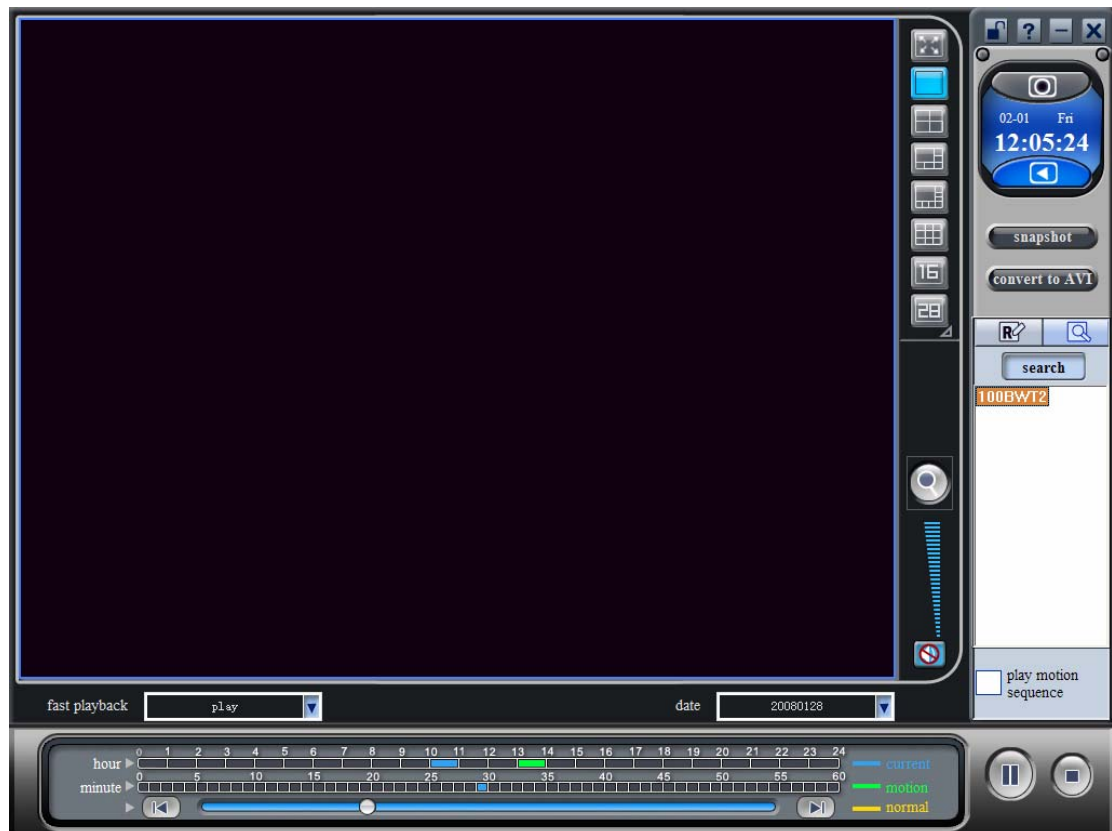


The image shows a dialog box titled "add NAS". It contains five input fields: "IP" with the value "192.168.21.1", "path" with the value "ta", "account", "password", and "confirm". At the bottom, there are "OK" and "Cancel" buttons.

Field	Value
IP	192.168.21.1
path	ta
account	
password	
confirm	

Set NAS IP, path, NAS account and password to add to save path.

After searching, click ok to display results on playback list, double click the camera icon to play.



When single playback, user is able to use the quick playback function. Switchable playback speed: Standard, 2xSpeed, 3xSpeed, 4xSpeed, 6xSpeed, 8xSpeed, 12xSpeed, 16xSpeed.

Blue bar states broadcast time

Green bar states the motion detection

Yellow bar states normal recording

Drag in the blue bar to adjust the time

<7> AVI Conversion

AVI Conversion is for recording files to convert to AVI format.

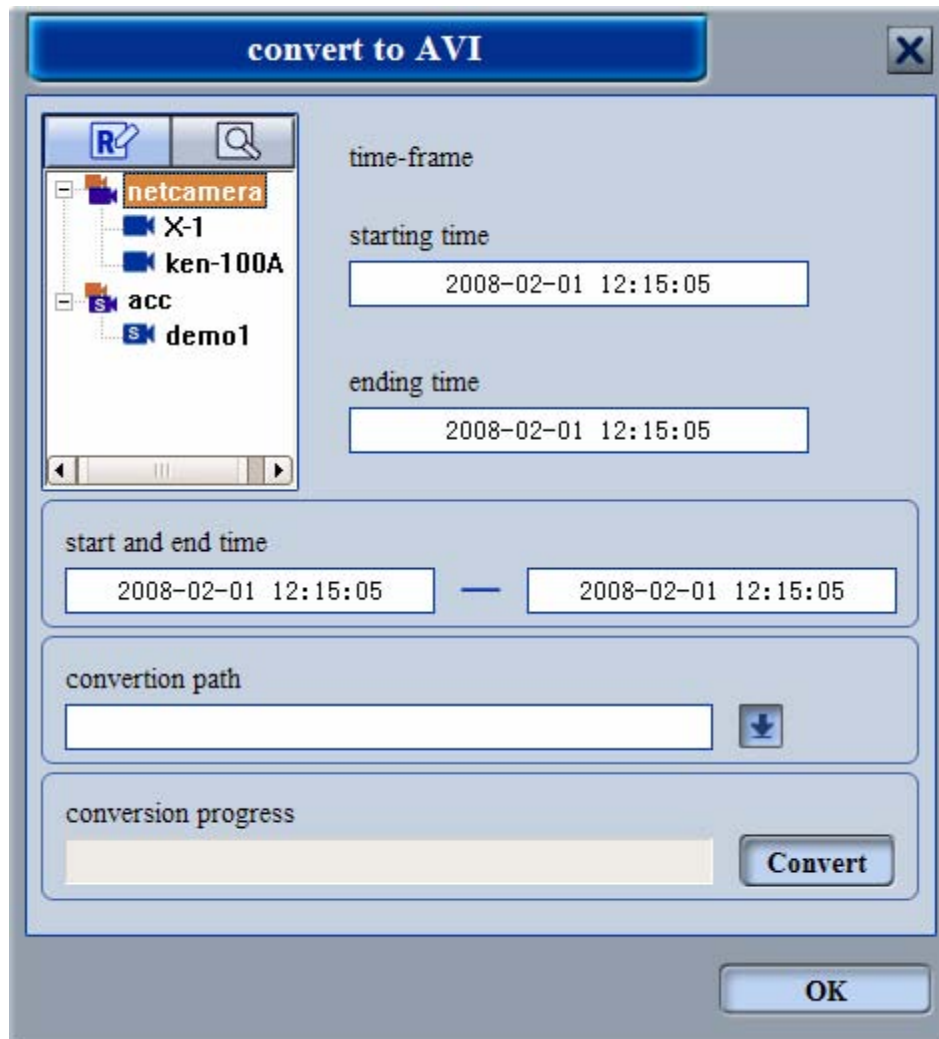
Choose camera to convert from camera list.

Video time-frame shows the start and end of recording of selected camera.

Select the time-frame wished to be converted from the recording.

Change the save path settings to AVI save path

Click convert, process bar will show the progress.



<8>Others

X-1
 IP:192.168.0.208
 model:100C
 serial number:Invalid SN
 status:normal
 group:netcamera
 FPS:,BPS:0,RES:



The right list shows all groups and account, double click group or account to see all the camera icons of this group. At the same time, the left side will show all cameras within the group.

For normal groups, when you right click the group icon, four shortcuts appear, replace, add, close, info. The replace shortcut is used replace the camera group playing now with the selected camera group. The

add shortcut is to add selected group into list. The close shortcut is to close selected group. The info shortcut is allows user to check group name, type, number of cameras, and status of cameras.

When user right clicks account group, five shortcuts appear as the following, replace, add, close, reconnect, info. Reconnect is used when account is snatched, it connects directly to account group without the requirement to reboot NVR.

Right click any camera icon to show camera information. The information shows camera IP address, series, serial number, status, group, and image quality. Other Video Split Screens: User can chose any format anytime. Press "esc" to quit full screen.



Page/Group flip: This function includes flipping upwards, downwards, or auto-flip.

Mode switch: Click icon to switch preview mode or play mode. Preview mode displays one image per a few seconds, to save PC performance.

Volume Adjustment: User can adjust volume or mute.

Split screens: User can choose up to 28, 36, 49 or even 64 split screens.



Color Adjustments: User can adjust viewage effects by adjusting the color adjustment.

1. Brightness: Brightness adjustment of image
2. Contrast: Contrast adjustment of image.
3. Color: Color adjustment of image
4. Saturation: Saturation adjustment of image.



PTZ control: when selected camera have PTZ functions included, then "PTZ controls" can be used.

Click "PTZ controls" to maximize PTZ interface.

Click "PTZ" located in the center of the circle to access advanced PTZ control.



PTZ controls

Zoom in

Zoom out

Focus near

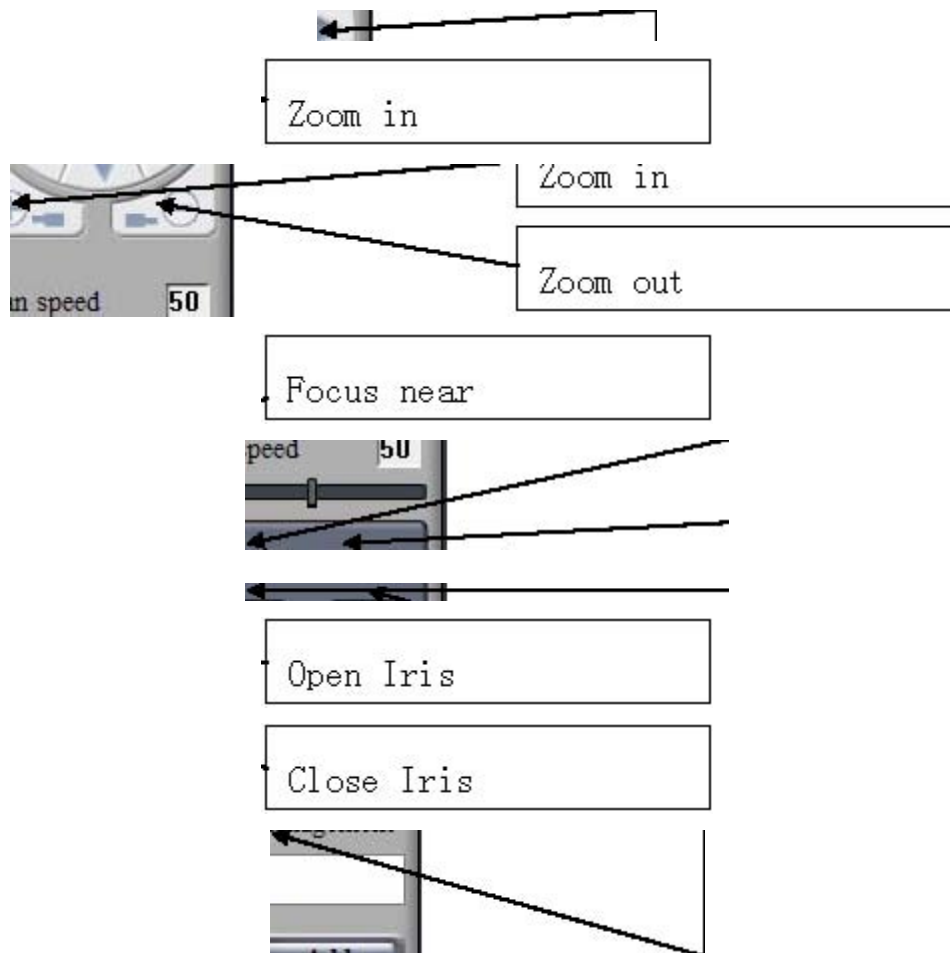
Focus Far

Open Iris

Close Iris

Prefabricated selection box

Preset point management: User can add preset points, delete preset points, or clear all preset points.





Screen lock: Unlocking requires NVR password. If there is no password, system will remind you to set one.

Stop recording: When setting image quality, user can stop recording, then modify.

Snapshot



User can use cameras to take pictures

Click the snapshot icon to take a photo of the current screen of selected camera.

The picture can be either printed or be saved on the hard disk of the computer.

Icon definition:



From left to right

1. Camera is recording
2. Scheduled recording, not now.
3. recording error
4. unknown status
5. offline
6. password error
7. connecting
8. connection failure
9. connection error
10. Connected, awaiting data
11. Normal status
12. Account snatched
13. Camera deleted



From left to right

1. Account group
2. Regular group
3. Cameras in account
4. Cameras added by IP(Port)
5. local cameras(added by IP and search)



From left to right

1. This is an account group
2. Account snatched
3. Connection failure
4. Camera error in group(connection error or recording error.)

1, 2,3 are specialized for group accounts, 4 is for all accounts.